

LIBRARY  
OF THE  
UNIVERSITY  
OF ILLINOIS


C

C124Zd

1882-1899/1900







Digitized by the Internet Archive  
in 2012 with funding from  
University of Illinois Urbana-Champaign









2a  
2  
*Compliments of the Faculty*

ANNOUNCEMENT  
OF THE  
DENTAL DEPARTMENT  
OF THE  
UNIVERSITY OF CALIFORNIA,  
FOR ITS  
FIRST SESSION  
OF  
1882.  
THE LIBRARY OF THE  
FEB 26 1931  
UNIVERSITY OF ILLINOIS.

N.B.—Those who wish to receive the Announcement, also, those who desire to take the First Course, are requested to forward their names and addresses to the Dean.

SAN FRANCISCO :  
A. L. BANCROFT & Co., PRINTERS AND BOOKBINDERS, MARKET ST.

1882.





# ANNOUNCEMENT

OF THE

## DENTAL DEPARTMENT

OF THE

## UNIVERSITY OF CALIFORNIA,

FOR ITS

This volume is bound without \_\_\_\_\_

1894/95 \_\_\_\_\_

which is/are unavaible.

SAN FRANCISCO :

A. L. BANCROFT & Co., PRINTERS AND BOOKBINDERS, MARKET ST.

1882.





ANNOUNCEMENT  
OF THE  
DENTAL DEPARTMENT  
OF THE  
UNIVERSITY OF CALIFORNIA,  
FOR ITS  
FIRST SESSION  
OF  
1882.

THE LIBRARY OF THE  
FEB 26 1931  
UNIVERSITY OF ILLINOIS.

N.B.—Those who wish to receive the Announcement, also, those who desire to take the First Course, are requested to forward their names and addresses to the Dean.

SAN FRANCISCO :  
A. L. BANCROFT & Co., PRINTERS AND BOOKBINDERS, MARKET ST.

1882.

# CONTENTS.

	DENTAL DEPARTMENT.	PAGE.
BOARD OF REGENTS,	- - - - -	3
FACULTY,	- - - - -	4
PETITION OF MEDICAL DEPARTMENT TO REGENTS,	- - - - -	5
REPORT OF COMMITTEE ON INSTRUCTION AND VISITATION,	- - - - -	6
ADOPTION OF THE REPORT BY THE REGENTS,	- - - - -	7
STATEMENT OF FACULTY,	- - - - -	7
PRELIMINARY TERM,	- - - - -	10
REGULAR TERM,	- - - - -	10
FEES,	- - - - -	10
REQUIREMENTS OF ADMISSION,	- - - - -	10
QUALIFICATIONS FOR GRADUATION,	- - - - -	10
NOTICE OF HIGHER STANDARD,	- - - - -	11
TEXT BOOKS,	- - - - -	12
OUTLINE OF COURSE AND TIME TABLE,	- - - - -	13
DUTIES OF PROFESSOR OF OPERATIVE DENTISTRY,	- - - - -	14
DUTIES OF PROFESSOR OF DENTAL PATHOLOGY AND THERAPEUTICS,	- - - - -	14
DUTIES OF PROFESSOR OF MECHANICAL DENTISTRY,	- - - - -	15
DUTIES OF PROFESSOR OF PHYSIOLOGY,	- - - - -	15
DUTIES OF PROFESSOR OF CHEMISTRY,	- - - - -	15
DUTIES OF PROFESSOR OF ANATOMY,	- - - - -	15
DUTIES OF PROFESSOR OF SURGERY,	- - - - -	16
PRACTICAL ANATOMY,	- - - - -	16
HOSPITALS,	- - - - -	16
LITERARY AND SCIENTIFIC DEPARTMENTS.		
FACULTY,	- - - - -	17
REGULAR COURSES LEADING TO A DEGREE,	- - - - -	18
IRREGULAR COURSES NOT LEADING TO A DEGREE,	- - - - -	19
REQUIREMENTS FOR ADMISSION,	- - - - -	20
CLASSICAL COURSE,	- - - - -	21
LITERARY COURSE,	- - - - -	22
COURSE IN LETTERS AND SCIENCE,	- - - - -	23
TIMES, PLACES, AND CONDITIONS OF EXAMINATIONS,	- - - - -	24

# BOARD OF REGENTS.

University of California.

## EX-OFFICIO REGENTS.

HIS EXCELLENCY GEORGE C. PERKINS	- - -	SACRAMENTO.
<i>Governor, ex-officio President of the Board.</i>		
HIS HONOR JOHN MANSFIELD	- - -	LOS ANGELES.
<i>Lieutenant-Governor.</i>		
HON. W. H. PARKS	- - -	MARYSVILLE.
<i>Speaker of the Assembly.</i>		
HON. FREDERICK M. CAMPBELL	- - -	SACRAMENTO.
<i>State Superintendent of Public Instruction.</i>		
HON. J. McM. SHAFER	- - -	OLEMA.
<i>President of the State Agricultural Society.</i>		
P. B. CORNWALL	- - -	SAN FRANCISCO.
<i>President of the Mechanics' Institute.</i>		
W. T. REID, A.M.	- - -	BERKELEY.
<i>President of the University.</i>		

## \* APPOINTED REGENTS.

NAME.	RESIDENCE.	TERM EXPIRES
REV. HORATIO STEBBINS, D.D.	San Francisco	1894.
HON. SAMUEL B. MCKEE	Oakland	1884.
HON. JOHN S. HAGER	San Francisco	1896.
HON. J. WEST MARTIN	Oakland	1898.
HON. JOHN F. SWIFT	San Francisco	1888.
A. S. HALLIDIE, ESQ.	San Francisco	1892.
HON. JOS. W. WINANS	San Francisco	1890.
HON. WM. T. WALLACE	San Francisco	1886.
PROF. GEORGE DAVIDSON	San Francisco	1884.
JOHN L. BEARD, ESQ.	Mission of San José	1892.
HON. A. L. RHODES	San José	1888.
PROF. WM. ASHBURNER	San Francisco	1896.
HON. B. B. REDDING	San Francisco	1898.
HON. T. GUY PHELPS	Belmont	1896.
HON. N. GREENE CURTIS	Sacramento	1890.
I. W. HELLMAN, ESQ.	Los Angeles	1886.

\*In order of appointment.



# UNIVERSITY OF CALIFORNIA.

## Dental Department.

CORNER OF STOCKTON AND FRANCISCO STREETS.

---

### FACULTY.

WILLIAM T. REID, A.M.,

*President of the University and ex-officio President of the Faculty*

A. F. McLAIN, M.D., D.D.S.,

*Professor of Dental Pathology and Therapeutics.*

S. W. DENNIS, M.D., D.D.S., F.R.M.S.,

*Professor of the Principles and Practice of Operative Dentistry and Dental Histology.*

C. L. GODDARD, A.M., D.D.S.,

*Professor of Mechanical Dentistry.*

M. W. FISH, M.D.,

*Professor of Physiology.*

A. W. PERRY, M.D.,

*Professor of Chemistry.*

WILLIAM LEWITT, M.D.,

*Professor of Anatomy.*

W. E. TAYLOR, M.D.,

*Professor of the Principles and Practice of Surgery*

---

### DEMONSTRATORS.

---

*Demonstrator of Operative Dentistry.*

---

*Demonstrator of Mechanical Dentistry.*

WILLIAM B. LEWITT, M.D.,

*Demonstrator of Anatomy.*

E. O. COCHRANE,

*Demonstrator of Continuous Gum Work.*

MAURICE J. SULLIVAN, D.D.S.,

*Demonstrator of Salivary Analysis.*

---

### CLINICAL INSTRUCTORS.

J. A. W. LUNDBORG.

H. E. KNOX, D.D.S.

R. E. COLE, D.D.S.

R. CUTLAR, D.D.S.

GEO. OTIS LAWRENCE, D.M.D.

H. J. PLOMTEAUX.

WILLIAM B. KINGSBURY.

H. C. DAVIS, L.D.S.

R. W. HENDERSON.

J. L. ASAY, M.D.

J. H. HATCH, D.D.S.

L. L. DUNBAR, D.D.S.

JOHN RABE, D.D.S.

S. W. DENNIS,

*Dean of the Faculty.*

# DEPARTMENT OF DENTISTRY.

---

The following abstract from the records of the proceedings of the Board of Regents of the University of California, will be sufficient to show the first effectual step toward the founding of a Dental College upon the Pacific Slope:

MEDICAL DEPARTMENT, UNIVERSITY OF CALIFORNIA,

SAN FRANCISCO, CAL.,

May 28, 1881.

*To the Honorable the Board of Regents of the University of California.*

GENTLEMEN:—We the undersigned, members of the Faculty of the Medical Department of the University of California, would respectfully recommend that a Dental Department be established in connection with the Medical Department of the University of California, and for the following reasons, viz:

- 1st. That Dentistry is an important collateral branch of Medical Science.
- 2d. That Dental education is necessary for the public good.
- 3d. It can be most thoroughly acquired in connection with the Medical Department, and, under the management of competent men, actively engaged in the dental profession.
- 4th. That the Universities of Harvard, Pennsylvania, Michigan and Vanderbilt have instituted and organized departments that are known as Dental Departments, which are now in active operation.
- 5th. That if your honorable body deem it expedient, and will organize a Dental Department in the University of California, and in connection with the Medical Department of said University, we can, and will, give said Dental Department lecture and clinic room, free of expense.
- 6th. We are aware that a Dental Department was partially organized, sometime since, but under such circumstances that no progress has been made towards perfecting the organization, and starting it into operation.

We think, if you will organize a new Dental Department, that, with the facilities afforded by the Medical Department, it can be put in operation immediately.

We would further state that we endorse the appointments you have already made in the Dental Department.

Very respectfully,

C. M. BATES, M.D.,

*Professor of Clinical Medicine.*

JAMES SIMPSON, M.D.,

*Professor of Materia Medica and Therapeutics.*

R. A. McLEAN, M.D.,

*Professor of Clinical and Operative Surgery.*

ALFRED W. PERRY, M.D.,

*Professor of Medical Chemistry.*

W. LEWITT, M. D.,

*Professor of Anatomy.*

W. F. McNUTT, M.D., F.R.C.S.,

*Professor of Principles and Practice of Medicine.*

HENRY FERRER, M.D.,

*Professor of Pathology and Microscopy.*

W. E. TAYLOR, M.D.,

*Professor of Principles and Practice of Surgery.*

W. H. MAYS, M.D.,

*Lecturer on Obstetrics and Gynecology.*

F. W. HATCH, A.M., M.D.,

*Professor of Hygiene.*

---

The foregoing petition was referred by the Board of Regents to the Committee of Instruction and Visitation, who reported, August the 1st, 1881, as follows:

“In the matter of the petition of the Faculty of the Medical Department of the University for the establishment of a Dental Department, the committee beg to report their approval of the object of the petition, and recommend that the whole matter be referred to a committee of the Board, to confer with the Dean of the Medical Faculty, and report a plan of organization of said Department.

Rev. HORATIO STEBBINS, D.D.,

Prof. GEORGE DAVIDSON,

Prof. WILLIAM ASHBURNER,

Hon. B. B. REDDING,

Hon. FRED. M. CAMPBELL,

*Committee.”*

September 7th, 1881.

The following report of the Committee of Instruction and Visitation was unanimously adopted by the Board of Regents:

FIRST. That a Dental Department be established in connection with the Medical Department of the University, and the same be organized with:

- 1st. A Professor of the Principles and Practice of Operative Dentistry.
- 2d. A Professor of Dental Pathology and Therapeutics.
- 3d. A Professor of Dental Art and Mechanism.
- 4th. A Professor of Physiology.
- 5th. A Professor of Chemistry.
- 6th. A Professor of Anatomy.
- 7th. A Professor of Surgery.

That S. W. Dennis, M.D., D.D.S., be appointed Professor of the Principles and Practice of Operative Dentistry. [Re-appointed.]

That A. F. McLain, M.D., D.D.S., be appointed Professor of Dental Pathology and Therapeutics. [Re-appointed.]

That C. L. Goddard, A.M., D.D.S., be appointed Professor of Dental Art and Mechanism.

That M. W. Fish, M.D., be appointed Professor of Physiology.

That A. W. Perry, M.D., be appointed Professor of Chemistry.

That William Lewitt, M.D., be appointed Professor of Anatomy; and

That W. E. Taylor, M.D., be appointed Professor of Surgery.

Attest:

J. H. C. BONTE,  
Secretary of the Board of Regents.

In addition we would state that the Board of Regents of the University of California, in conjunction with the Medical Faculty thereof, has instituted and organized this Department as an integral part of the State University, and for the following reasons, namely:

FIRST. In deference to the opinion so often expressed by the profession and the people, individually and collectively, in favor of a Dental College, as a much desired object and public necessity.

SECOND. From a desire to comply with the public wants and requirements by enlarging the opportunities and facilities for both general and special culture in the University of California, and upon the Pacific Coast.



THIRD. "Recognizing the importance and beneficence which the art and science of dental surgery, as a collateral branch of medicine, bears upon the health and comfort of the human family."

FOURTH. "Appreciating the necessity for the proper training and instruction of those who propose to assume the important duties and responsibilities of this profession."

FIFTH. Recognizing the great extent of territory embraced in the Pacific Slope, and knowing the wide belt of country without educational facilities, connecting the Pacific States and Territories with the Atlantic States.

SIXTH. From a desire to relieve those who wish to acquire a dental education from the anxieties, cares and great expense incident to so long a journey and stay as was necessary to acquire a thorough professional training or knowledge sufficient to command public confidence, and meet their requirements.

"We would further state, that the great progress of Dentistry has given it rank among the liberal professions, and that rank and progress can be maintained in the future, only by liberal studies."

In accordance with the petition already submitted, the Dental Department of the University of California, will be accommodated in the Medical Hall of the University, ample provisions having been made for lecture and clinic room, through the generous offer of the Medical Faculty.

The lecture rooms are large, well ventilated and lighted; one of which will be used by the Dental Faculty, and the other by the Medical Faculty alternately. There will be ample room for all clinical purposes, and it is expected that there will be an abundance of clinical material for practical instruction in all the principles taught in the college.

All instruction from the medical chairs, utilized in the Dental Department, will be given to students in dentistry conjointly with that given to the medical students, and the dental instruction will be separate, but all under the same roof.

---

We submit the following extract from the announcement of the Medical Department of the University of California, for the consideration of those who contemplate taking a dental course:

"While the several other colleges of the State University are clustered at Berkeley, its Medical Department is, for convenience of clinical study, conducted wholly, or almost wholly, in San Francisco. The advantages for demonstrative teaching presented by a seaport city of nearly 300,000 inhabitants, will be recognized as almost unbounded.

"The college building known as Toland Hall, a massive brick and stone edifice, is one of the most complete and stately medical colleges in the country. It is situated on North Beach, overlooking the Bay, the locality being one where the health and industrious habits of the student are promoted by quietness and pure air.

"The main lecture hall of the college is capable of seating 500 persons. The clinical amphitheater is about equally capacious.

"The museum contains an extensive collection of specimens and preparations.

"The dissecting room is fitted up with all the modern improvements.

"The laboratory is replete with all chemicals and apparatus necessary for practical teaching.

"A suite of apartments in the building is set apart for the dispensary clinics."

There are two large, well lighted and convenient dental operating rooms. Chairs will be assigned to students in the order of their matriculation. The mechanical laboratory is commodious, and furnished with benches, lathes, furnaces, and all other requisites for thorough work. Each student is required to furnish his own instruments and tools, and will be provided with a separate drawer in which they can be securely locked. During the hours devoted to operative and mechanical dentistry, competent demonstrators will be present to assign patients to students, and superintend and assist them in their operations.

Both the Medical and Dental Departments of the University of California, unlike corresponding Colleges of the Eastern States, have their preliminary term in the Spring, and the regular term in the Summer.

## CALENDAR.

---

### PRELIMINARY TERM.

The Preliminary Term will commence on the first Tuesday in April, 1882, and continue four weeks.

---

### REGULAR TERM.

The Regular Term will commence on the 1st of June, 1882, and end on the 30th of October, 1882.

---

### FEES.

The Matriculation Fee will be	-	-	-	-	\$5.00
Tuition	-	-	-	-	100.00
Demonstrators' Fees	-	-	-	-	30.00
Diploma Fee	-	-	-	-	30.00

---

### REQUIREMENTS FOR ADMISSION.

Every candidate for admission must be 18 years of age, and is required to present to the Faculty satisfactory evidence of a good moral character.

---

### REQUIREMENTS FOR GRADUATION.

The candidate for the degree of Doctor of Dental Surgery must have attained the age of twenty-one years, and be of good moral character.

He shall have passed a satisfactory examination, either oral or in writing, or both, as may be required by the Faculty.

He shall write an original thesis upon some subject pertaining to Dentistry or Medicine.

He shall have attended two full courses in the Dental Department of the University of California, or one year in some other reputable Dental College, and the second or last in this college.

The candidate is required to dissect at least two parts. He must treat thoroughly some patient requiring all the usual dental operations,

and bring such patient before the Professors of Operative Dentistry, and Dental Pathology and Therapeutics. He must also take up at least one artificial case, and, after it is completed, bring his patient before the Professor of Mechanical Dentistry at least thirty days before the close of the term. He must also prepare a specimen case, to be deposited in the college collection, and present the same to the Professor of Mechanical Dentistry before the 1st of October. The operating must be performed, and the work on the artificial cases done, at the college building.

Graduates in Medicine may apply for the Degree of Doctor of Dental Surgery upon attending one full year in the Dental Department of the University of California.

Dentists of seven years practice may apply for the Degree of Doctor of Dental Surgery after having attended one full course in the University of California.

After these requirements have been complied with, upon the recommendation of the Faculty, and approval of the Board of Regents, the candidate shall receive the Degree of Doctor of Dental Surgery.

---

The Faculty hereby gives notice that examinations of candidates for admission will be instituted to take effect with the opening of the Regular Summer Session, commencing in June, 1883, or after the expiration of the first year.

All matriculates, previous to that date, will be exempt from the preliminary examination.

All matriculates, after that date, will be required to write a brief essay, not less than one page of foolscap, which will serve as a test of his qualifications in orthography and grammar ; and also undergo an examination in the elementary principles of physics and mathematics.

Satisfactory evidence of having received a collegiate degree, or having graduated at a recognized college or high school, will exempt the candidate from this preliminary examination.



## TEXT BOOKS.

---

ANATOMY—*Gray.*

DENTAL ANATOMY—*Tomes.*

PHYSIOLOGY—*Dalton or Flint.*

HISTOLOGY—*Stricker, Frey, Beal, and Wythe.*

PATHOLOGY—*Wagner.*

DENTAL PATHOLOGY—*Wedl.*

ORAL SURGERY—*Garretson.*

OPERATIVE DENTISTRY—*Taft and Harris.*

MECHANICAL DENTISTRY—*Richardson.*

ORAL DEFORMITIES—*Kingsley.*

CHEMISTRY—*Miller, Fownes, and Atfield.*

PRACTICAL CHEMISTRY—*Prescott.*

THERAPEUTICS—*Wood, Biddle, or Bartholow.*

MEDICAL DICTIONARY—*Dungleson.*

DENTAL DICTIONARY—*Harris.*

*Carpenter* ON "THE MICROSCOPE."

# OUTLINE OF THE COURSE OF STUDY.

MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
8 a.m. Lecture, Prof. Taylor.	From 8 a.m. to 12 m. Medical Hospital Clinic.	8 a.m. Lecture, Prof. Taylor.	From 8 a.m. to 12 m. Medical Hospital Clinic.	8 a.m. Lecture, Prof. Taylor.	From 8 a.m. to 1 p.m. Medical Hospital Clinic.
9 to 11 a.m. Operative Dental Clinic.		Operative Dental Clinic, from 9 to 11 a.m.		9 a.m. to 11 a.m. Operative Dental Clinic.	
11 a.m. to 1 p.m. Mechanical Dental Clinic.	3 p.m. Lecture, Prof. Perry.	From 11 a.m. to 1 p.m. Mechanical Dental Clinic.	3 p.m. Lecture, Prof. Perry.	11 a.m. to 1 p.m. Mechanical Dental Clinic.	
3 p.m. Lecture, Prof. Fish.		3 p.m. Lecture, Prof. Fish.		3 p.m. Lecture, Prof. Fish.	
4 p.m. Lecture, Prof. Lewitt.	4 p.m. Lecture, Prof. Dennis.	4 p.m. Lecture, Prof. Lewitt.	4 p.m. Lecture, Prof. Dennis.	4 p.m. Lecture, Prof. Lewitt.	From 2 to 5 p.m. Clinical Instructors.
	5 p.m. Lecture, Prof. McLain.	5 p.m. Lecture, Prof. Goddard.	5 p.m. Lecture, Prof. McLain.	5 p.m. Lecture, Prof. Goddard.	

## PRINCIPLES AND PRACTICE OF OPERATIVE DENTISTRY AND DENTAL HISTOLOGY.

It will be the aim of the incumbent of this chair, as it is the object of it, to give a comprehensive course upon all of the principles underlying this branch of Dental Science. The means and methods at present used in practice will be fully considered; also, a comparison will be made of the present and former systems of operating.

The intra and extra uterine development of the teeth will be fully dwelt upon, from the inception to the shedding of the temporary or deciduous set on to the full and complete eruption of the permanent set and their final loss.

The topographical and general, as well as the minute or histological anatomy of the teeth will be fully illustrated.

The Principles of the Microscope, and the application of them to the study of the laws of life, health and disease will demand a share of his attention.

The Principles and Practice of Operative Dentistry embrace so much that the Lecturer from this Chair may necessarily encroach upon the field of several others; but should this be the case, it will be only the outgrowth of a desire to make the course as instructive, and interesting and comprehensive as possible.

---

## DENTAL PATHOLOGY AND THERAPEUTICS.

The lectures delivered by the incumbent of this Chair will embrace a full and comprehensive course on the following topics:

1. GENERAL PATHOLOGY—In which will be discussed those general aspects of disease with which it is necessary to be acquainted, in order to be able to understand the nature of any departure from health; causes of disease, symptoms, diagnosis, prognosis, temperaments, pathology of anesthetics, irritation, determination, congestion, inflammation and its terminations:—effusion, suppuration, ulceration, gangrene, sloughing, morbid growths, etc.

2. SPECIAL PATHOLOGY—In which a critical examination will be made into the special causes of dental decay; dental hygiene and prophylaxis; diseases of the enamel—of the dentine; diseases of the dentinal pulp—together with the causes of alveolar abscess—its stages and results; exostosis of the roots and alveoli; necrosis and exfoliation; diseases of the antrum; tumors, benign and malignant; diseases of the buccal mucous membranes.

Neuralgia and other nervous affections will receive such attention as their importance may demand, and besides there will be presented such other special diseases as may in any degree be of interest to the Dental Practitioner, such as scurvy, scrofula, rachitis, and other diseases of the bones.

3. **GENERAL PRINCIPLES OF THERAPEUTICS**—Under which head the general application of medicines will be noticed—their action, constitutional and topical.

4. **SPECIAL THERAPEUTICS**—In connection with Dental Materia Medica, as incidentally related thereto.

---

### MECHANICAL DENTISTRY.

The instruction in Mechanical Dentistry will embrace everything necessary to enable the dentist successfully to supply substitutes for lost dental organs.

Special reference will be made to the principles involved in the restoration of the natural functions of the teeth, namely:—mastication, enunciation, and expression of the features, keeping in view always, the health and the future usefulness of the living parts.

The various mechanical means employed in correcting irregularities will be explained and illustrated.

In the Laboratory, ample opportunities will be given to each student to perform, under the supervision of practical Demonstrators, every operation in Mechanical Dentistry.

---

### PHYSIOLOGY.

The Lectures in this department, by Professor Fish, embrace a consideration of both General and Special Physiology; including all that has been developed up to the present time, and are illustrated by the largest and most complete series of colored drawings in the United States, prepared exclusively for these lectures. Besides which, the vast collection of preparations and drawings of the Scientific Department at Berkeley are at the command of the Professor. Vivisections are practiced when necessary to demonstrate principles, and the microscope is freely used for illustrating important facts and principles.

---

### CHEMISTRY.

Professor Perry will spare no effort to make the course in chemistry thoroughly practical and instructive. All important principles are illustrated by means of suitable philosophical, chemical and other apparatus, and facts and theories are presented in a clear and comprehensive manner.

---

### ANATOMY.

Professor W. Lewitt's lectures on anatomy are illustrated fully by the *cadaver*, and by both wet and dry preparations, models, manikins, and drawings, and include a course on general, special and topographical anatomy, thus preparing the student for active surgical practice, as well as giving him a thorough knowledge of the relation of organs. Before each lecture a short examination is held on the subject of the preceding lecture.



## SURGERY.

Professor Taylor delivers three lectures each week on the Art and Science of Surgery. The more recent views on the management of surgical conditions and the appliances devised for their relief are particularly dwelt upon, and illustrated with drawings and models when necessary. This course will include a series of lectures upon Operative Surgery, with demonstrations on the *cadaver*. The student will be drilled in the manipulation of instruments used in the various operations.

In addition to his usual course of lectures on surgery, he will pay particular attention to surgical diseases and injuries of the head, face, jaws and mouth.

---

## PRACTICAL ANATOMY.

The dissecting-room of the University is spacious, well-ventilated, well-lighted from above, and provided with every convenience. It is open throughout the year under the superintendence of the Professor of Anatomy and the Demonstrator of Anatomy. A full supply of material is always procurable at small cost, and is thoroughly preserved from decomposition. When the dissections are conducted in a diligent manner, the student is furnished by the Demonstrator with certificates stating the amount and part dissected. The Dissecting Ticket (\$10.00) is good for the whole year, from January 1st to December 31st.

---

## HOSPITALS.

All students in Dentistry will have all the facilities and opportunities enjoyed by the medical students in hospital practice and observation. They will have the freedom, as above represented, of the City and County Hospital, City Receiving Hospital, San Francisco Female Hospital.

For further particulars upon this subject, see Medical Department announcement.

For further information, address—

S. W. DENNIS, *Dean*,

33 KEARNY STREET, SAN FRANCISCO, CAL.

---

CLARK L. GODDARD, *Secretary*, 23 Post Street, San Francisco, Cal.

A. F. McLAIN, *Treasurer*, 108 Stockton Street, San Francisco, Cal.

---

N.B.—BOARDING. The expense of living in the city of San Francisco is not great. Good board, with room rent, may now be procured at the low rate of \$5 per week, at a convenient distance from the College building. Students from a distance may learn the addresses of these boarding houses, and other information, by calling on the Dean of the Faculty.

# Literary & Scientific (Undergraduate) Departments

OF THE

## UNIVERSITY OF CALIFORNIA,

INCLUDING

- |  |                            |
|--|----------------------------|
| 1. COLLEGE OF LETTERS<br>(CLASSICAL COURSE). | 4. COLLEGE OF MINING.      |
| 2. COLLEGE OF AGRICULTURE.                   | 5. COLLEGE OF ENGINEERING. |
| 3. COLLEGE OF MECHANICS.                     | 6. COLLEGE OF CHEMISTRY.   |
|  | 7. LITERARY COURSE.        |
| 8. COURSE IN LETTERS AND SCIENCE.            |                            |

### FACULTIES OF COLLEGES OF SCIENCE AND LETTERS.

- WILLIAM T. REID, A. M., *President of the University.*  
 WILLIAM ASHBURNER, *Honorary Professor of Mining.*  
 GEO. WOODBURY BUNNELL, A. M., *Professor of the Greek Language and Literature.*  
 GEO. DAVIDSON, A. M., *Honorary Professor of Geodesy and Astronomy.*  
 STEPHEN J. FIELD, LL. D., *Honorary Professor of Law.*  
 FREDERICK G. HESSE, *Professor of Industrial Mechanics.*  
 EUGENE W. HILGARD, PH. D., *Professor of Agriculture, Agricultural Chemistry, General and Economic Botany.*  
 MARTIN KELLOGG, A. M., *Dean, and Professor of the Latin Language and Literature.*  
 JOHN LeCONTE, M. D., LL. D., *Professor of Physics.*  
 JOSEPH LeCONTE, *Professor of Geology and Natural History.*  
 BERNARD MOSES, PH. D., *Professor of History and Political Economy.*  
 WILLARD B. RISING, PH. D., *Professor of Chemistry.*  
 EDWARD R. SILL, A. M., *Professor of the English Language and Literature.*  
 FRANK SOULE, JR. (U. S. Military Academy), *Professor of Civil Engineering and Astronomy.*  
 JOHN W. BICE, PH. B., *Instructor in Engineering.*  
 ROSSE BROWNE, *Instructor in Mechanical and other Branches of Instrumental Drawing.*  
 SAMUEL B. CHRISTY, PH. B., *Instructor in Mining and Metallurgy.*  
 JOHN B. CLARKE, PH. B., *Instructor in Mathematics.*  
 CHARLES H. DWINELLE, PH. B., *Lecturer on Practical Agriculture.*  
 GEORGE C. EDWARDS, PH. B., *Instructor in Mathematics.*  
 A. WENDELL JACKSON, JR., PH. B., *Instructor in Mineralogy.*  
 HENRY B. JONES, *Assistant Instructor in French.*  
 WM. CAREY JONES, A. M., *Recorder of the Faculty and Instructor in Latin.*  
 EDMUND C. O'NEIL, PH. B., *Instructor in Chemistry.*  
 ALBIN PUTZKER, *Instructor in German.*  
 JOSEPH C. ROWELL, A. B., *Librarian.*  
 JOSIAH ROYCE, JR., PH. D., Balt., *Instructor in the English Language and Literature.*  
 E. H. SEARS, A. B., *Instructor in Latin and Greek.*  
 F. SLATE, JR., *Superintendent of the Physical Laboratory.*  
 JOHN M. STILLMAN, PH. B., *Instructor in Chemistry.*  
 JOHN B. WILLCUTT, *Instructor in Chemistry.*  
 MYER E. JAFFA, PH. B., *Assistant in Agricultural Chemistry.*  
 FREDERICK W. MORSE, PH. B., *Assistant in Viticultural Laboratory*  
 J. J. RIVERS, *Curator of the Museum.*

## COLLEGES OF LETTERS AND OF SCIENCE.

---

This department of the University comprises the College of Letters, embracing a Classical Course; the College of Science, embracing Agriculture, Mechanics, Mining, Engineering and Chemistry; a Literary Course; a Course in Letters and Science; and certain irregular courses not leading to a degree.

---

### REGULAR COURSES LEADING TO A DEGREE.

*The completion of either of the eight following named courses requiring four years.*

THE CLASSICAL COURSE leads to the degree of Bachelor of Arts, and corresponds to the usual academic course of the leading American colleges. It is designed to offer the best preparation for professional study, and to furnish a liberal education. Both Latin and Greek are required for this course.

THE LITERARY COURSE leads to the degree of Bachelor of Letters, and has the same general purpose as the Classical Course. It is designed for students who wish to study Latin, and to enjoy a fuller course in English, French and German, than that offered by the Classical Course. Greek is not required for this course.

THE COURSE IN LETTERS AND SCIENCE leads to the degree of Bachelor of Letters, and in it special attention is given to the English Language and Literature, to Modern Languages, History and Political Science. It is especially intended for students who wish a liberal course in general culture. Neither Latin nor Greek is required for this course.

*The Courses in Science:* Agriculture, Mechanics, Mining, Engineering and Chemistry, lead to the degree of Bachelor of Science, and are designed to give to the student a good English education, and an introduction to the principles of Modern Science, together with special instruction preparatory to a fuller course of professional study in the particular department he may choose. Neither Latin nor Greek is required for these courses, but a preparatory course in Latin is recommended.

THE COURSE IN AGRICULTURE is designed for students who wish to familiarize themselves with the sciences underlying the farmer's calling, and with the best practice of its several branches, as a preparation for the intelligent and successful exercise of their profession, whether as practical farmers, or as agricultural experts.

THE COURSE IN MECHANICS is designed for students who wish to become mechanical engineers or machinists (so far as they are constructors of machinery), or to devote their energies to such technical and industrial pursuits as involve a knowledge of machinery.

THE COURSE IN MINING is designed for students who wish to become mining or metallurgical engineers, or to engage in one of the many pursuits connected with the mining industries, such as the surveying and mapping of mines, the assaying and working of ores, the designing and use of mining machinery, or the exploitation of mines.

THE COURSE OF ENGINEERING is designed for students who wish to adopt civil engineering as a profession, and to engage in such work as the survey of lands, leveling, topographical engineering, triangular or geodetic surveying, the location and construction of roads, railways and canals, the designing and construction of bridges of wood, iron or stone, the building of dams, reservoirs and systems of water supply, drainage and sewage, and the improvements of rivers, harbors and sea coasts.

THE COURSE IN CHEMISTRY is designed for students who wish to become professional chemists, either as teachers or investigators, or manufacturers in chemical industries, and also for those who wish to become expert chemists preparatory to the pursuit of medicine, pharmacy, etc.

---

### IRREGULAR COURSES NOT LEADING TO A DEGREE.

N. B.—Written application to be allowed to take either of the three following named courses must, in all cases, and from year to year, be made at the Recorder's office. In this application the reasons for wishing to take the course must be given, and no student will be admitted to either of these courses without a certificate from the President. Students pursuing either of these courses are not enrolled in either of the college classes. Students who wish a thorough and systematic education are advised to take one of the eight regular courses.

THE STUDENT-AT-LARGE COURSE does not lead to a degree; but students in this course may, by vote of the Faculty, be recommended to a degree upon the satisfactory completion of studies equivalent to those pursued in one of the regular courses. It is designed for students who wish to take a full, but a purely elective course. They may select studies from any of the courses, provided they satisfy the Faculty that they are fitted to take the studies selected. Candidates for this course are required to pass one of the regular admission examinations, and, upon admission, to take studies enough to make up the full number of exercises required of students pursuing a regular course. Students who fail to maintain their standing as regular students will not be admitted to this course.

THE SPECIAL COURSE does not lead to a degree, but students in this course may, upon leaving the University, receive a certificate of pro-



ficiency in the studies which they have pursued, and in which they have attained marked scholarship. It is designed for students who are mature, and who wish to pursue some other line of *special* study and correlated branches. Students under age will not ordinarily be admitted to this course. Applicants who fail on the admission examinations, or students who fail to maintain their standing as regular students, will not be admitted to this course.

THE PARTIAL COURSE does not lead to a degree, but students in this course may, upon leaving the University, receive a certificate of proficiency in the studies which they have pursued, and in which they have attained marked scholarship. It is designed for students who, because of ill-health or other disability, are able to pursue only a limited number of studies, or to remain at the University only a short time. Applicants will not be admitted to this course until they have passed a satisfactory examination on such preparatory subjects as may be thought necessary to fit them for the studies they wish to pursue. Certificates of proficiency must be presented to the President before he will issue permission to be enrolled in this course. Applicants who fail on the admission examinations, and students who fail to maintain their standing as regular students, will not be admitted to this course, and the privileges of the course will be summarily withdrawn from students whose attainments or conduct indicate a want of earnestness.

NOTE.—Before entering upon the examinations for admission, candidates will be asked to make known the course they wish to take. It is very desirable that the choice should be made as early in their preparation as possible, and under the best advice attainable. After entering upon their University course, students will not be allowed to change their course except for the most urgent reasons; and students will not, under any circumstances, be allowed to change until all deficiencies in the course previously taken are made up.

---

## REQUIREMENTS FOR ADMISSION.

N. B.—All examinations are conducted in writing, except such as must of necessity be oral, such as reading, and the pronouncation of a foreign language. Candidates must be at least sixteen years of age, and must present certificates of good moral character.

All candidates for courses leading to a degree, and candidates for the Student-at-Large Course, must pass a satisfactory examination in the five following subjects :

1. ENGLISH. Candidates will be required to write a composition of about two pages (foolscap), correct in spelling, punctuation, grammar, and division into paragraphs, on a subject announced at the time of the examination. It is suggested that the candidate write such a composition or essay as he would write to a friend who knows nothing of the subject, and to whom he wishes to give as clear and as enjoyable an idea of it as possible. The candidate should have acquired

the elements of grammar, so as to distinguish the parts of speech, and explain the relations of words and phrases in ordinary sentences; and the elements of prose composition, as found in such a book as Kellogg's Text Book on Rhetoric. Much composition writing is indispensable.

The subjects for 1882 will be taken from *one* of the following works: Tom Brown's School Days at Rugby; Scott's Marmion; Charles and Mary Lamb's Tales from Shakespere; Shakespere's Merchant of Venice.

As the examination will be given upon subjects taken from but one of the books, candidates must be familiar with all the books in the list.

In 1883 the subjects will be taken from *one* of the following works: Tom Brown's School Days at Rugby; Charles and Mary Lamb's Tales from Shakespere; Irving's Sketch Book; Dickens' Christmas Stories and David Copperfield; Scott's Marmion and Quentin Durward; Shakespere's Merchant of Venice and Julius Cæsar.

2, 3, 4. MATHEMATICS. (2) *Arithmetic*. Higher Arithmetic, including the metric system, but omitting the technical parts of Commercial Arithmetic. (3) *Algebra*. Through quadratic equations, except for applicants for the Classical and the Literary Courses, who will be examined *to* quadratics. (4) *Plane Geometry*. As much as is contained in Wentworth's Plane Geometry, omitting Isoperimetrical Polygons and Semmetry, except for applicants for the Classical and the Literary Courses, who will be examined in the equivalent of four books of Wentworth's Geometry.

5. HISTORY AND GEOGRAPHY. History of the United States; the general facts of Physical and Political Geography. Barnes' Brief History of the United States, and the geographies used in first grade grammar schools, will serve to indicate the amount of knowledge expected.

---

### CLASSICAL COURSE.

Candidates for the Classical Course must pass a satisfactory examination on Subjects 1, 2, 3, 4, 5, as above, and on Subjects 6, 7, 8, 9 and 10, as follows:

6, 7. LATIN. (6) Cæsar, four books; the translation at sight of easy Latin prose (with reasonable help in vocabulary and notes); and the translation into Latin of simple English sentences, suitable to those who have taken Jones' Latin Composition. (7) Cicero, six orations; Virgil, six books of the Æneid. Questions on the subject-matter, on construction, on grammatical forms and on prosody, will form a part of the examinations in Cæsar, Cicero and Virgil.

8, 9. GREEK. (8) Xenophon's *Anabasis*, four books, or the first 111 pages of Goodwin's *Greek Reader*; and after 1882, the translation at sight of easy Greek prose (with reasonable help in vocabulary and notes). Homer's *Iliad*, two books, omitting catalogue of ships; and the translation into Greek of simple sentences, suited to the proficiency of those who have taken Jones' *Greek Prose Composition*. Questions on the subject-matter, on construction, on grammatical forms and on prosody, will form a part of the examinations in the *Anabasis* and Homer.

10. HISTORY AND GEOGRAPHY. Greek History, to the death of Alexander; Roman History, to the death of Commodus; and the geography connected with the study of Greek and Roman history, and the Greek and Latin authors read. Smith's *Smaller History of Greece*, and Smith's (*Smaller*) or Leighton's *History of Rome* will serve to indicate the amount required.

### LITERARY COURSE.

Candidates for the Literary Course must pass a satisfactory examination on Subjects 1, 2, 3, 4, 5, 6, 7 and 10. as above, and on Subjects 11 and 12, as follows:

11, 12. Any two of the following named subjects :

(1) PHYSICS. The elements of Physics (Avery's *Natural Philosophy*, Peck's *Ganot's Introductory Course of Natural Philosophy*, or an equivalent).

(2) CHEMISTRY. The elements of Chemistry (Eliot's and Storer's, or an equivalent.)

(3) BOTANY. The elements of Botany. An accurate knowledge of Part I. of Gray's *How Plants Grow*, together with an acquaintance with the more prominent native or cultivated plants, their structure and botanical affinities.

(4) PHYSIOLOGY. The elements of Physiology (Hutchinson's or an equivalent).

(5) FREE-HAND DRAWING.

(6) MINERALOGY. The elements of mineralogy. A good knowledge of the physical properties of minerals in general. Ability to determine, by their physical properties alone, twenty-five of the commonest minerals, and to give reasons for determination. First 72 pages of Nichol's *Manual of Mineralogy*, or first 75 pages of Dana's, 3d edition.

Applicants who pass with honors in Chemistry, will be put in an advanced division.

## COURSE IN LETTERS AND SCIENCE, AND THE COURSES IN SCIENCE.

Candidates for the Course in Letters and Science, and for either of the Courses in Science, viz: Agriculture, Mechanics, Mining, Engineering and Chemistry, must pass a satisfactory examination on Subjects 1, 2, 3, 4, 5, 11 and 12, as above, and subjects 13 and 14, as follows:

13. HISTORY. History of England; Anderson's, Lancaster's, or Dicken's will indicate the amount.

14. ENGLISH. The examination in English will be of a more critical character than that given by Subject 1, and will include whatever geographical, biographical, historical, grammatical or other questions (including derivation and definition) may be necessary to a full understanding of the selection. The candidate must, in addition, be prepared to write, in good English, such an essay on any one of the selections, including biographical sketches, as would convey to one not acquainted with the selection named a clear idea of its character and scope. A bad failure in this examination alone, will be sufficient to reject a candidate for admission to the course in Letters and Science. The examination will be given upon the following named selections: American Prose; American Poems; Shakespere's *King Lear*; Hawthorne's *Our Old Home*; Milton's *L'Allegro* and *Il Penseroso*; Byron's *Prisoner of Chillon*; Goldsmith's *Deserted Village* and *Traveler*; Burn's *Cotter's Saturday Night*, *To a Mouse*, and *to a Mountain Daisy*; Scott's *Lay of the Last Minstrel*; Bacon's *Essays of Truth, of Revenge, of Envy, of Boldness, of Travel, of Riches, and of Studies*, and Macaulay's *Essay on the Pilgrim's Progress*.

In 1882, American Prose, American Poems, and *King Lear* will be required.

[American Prose and American Poetry, published by Houghton, Mifflin & Co., Boston; any well annotated edition of Shakespere, such as the single-play edition of the Clarendon Press, Rolfe, etc. The selections are found in a series entitled "English Classics," at ten cents a copy, published by Clark & Maynard, New York; most of the selections may be found in the text-books on English Literature used in most high schools.]

In 1884, Readings from English History, by J. R. Green, will also be required.

Candidates who pass without conditions will be credited with honors on subjects on which they pass with special excellence; but honors will not be given to a student who enters with a condition.

In 1882, candidates who prefer will be admitted on the requirements announced in last year's Register.



In Latin, the following pronunciation is recommended :

ā as in *father*, ă shorter, as in *ăhă*, *păpă*.

ē as in *they*, ĕ as in *met*.

ī as in *machine*, ĭ as in *sit*.

ō as in *omen*, ō as in *omit*.

ū as in *pool*, ū as in *pull*.

y as French *u*.

In pronouncing diphthongs, the sound of both vowels is preserved.

ae as *ay*; eu nearly as *u* in *use*.

au as *ow* in *power*; u in *ua*, *ue*, etc., as *w*.

oe as *oi* in *oil*; ei as in *rein*.

c as in *can*; s as in *sin*.

ch as *k*; t as in *tin*.

g as in *gun*; v as English *w*.

j as *y* in *year*.

Other consonants as in English.

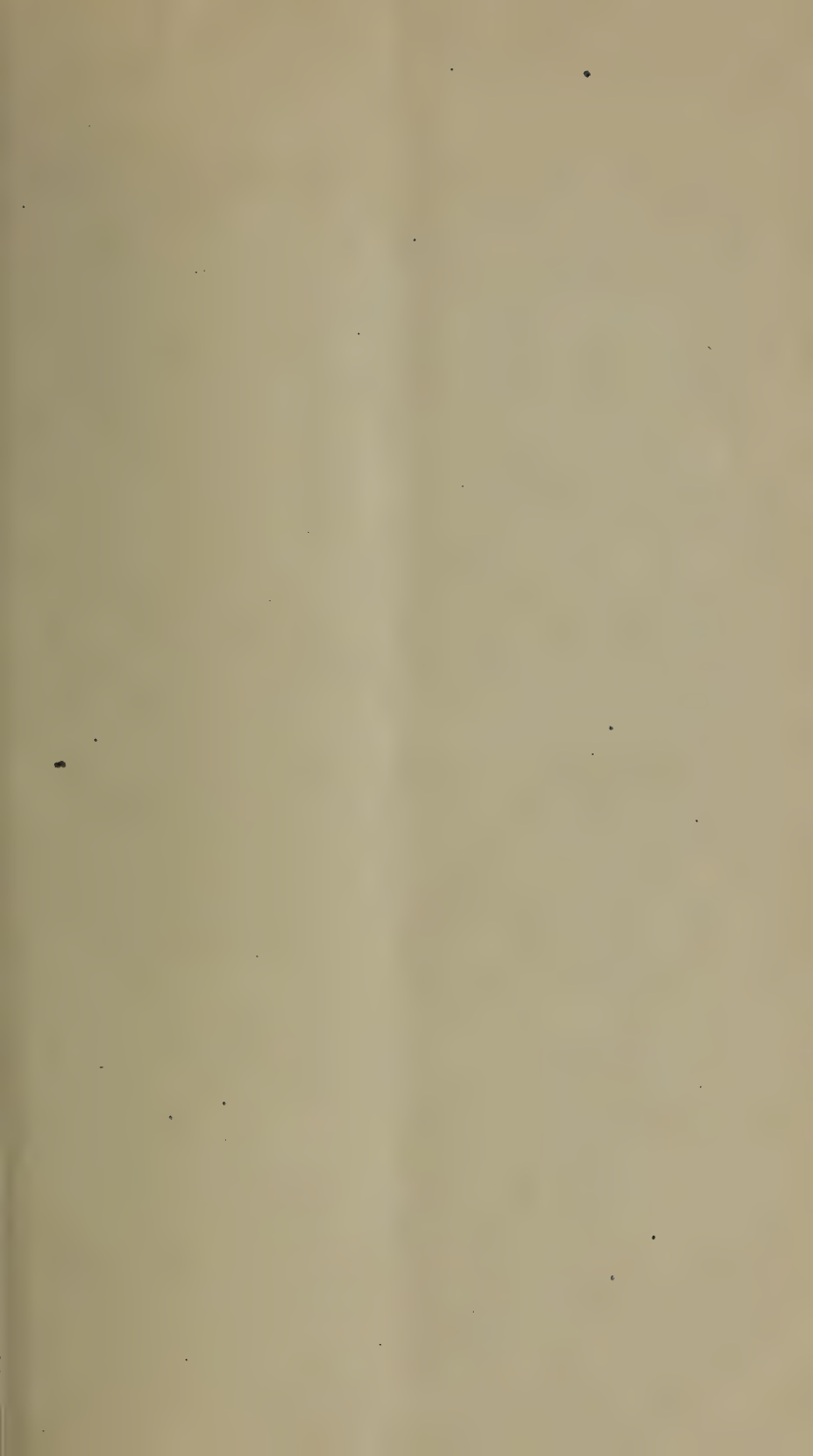
Greek must be written and pronounced with the accents. The pronunciation used in the University is that explained in the preface of Goodwin's Greek Grammar, second edition.

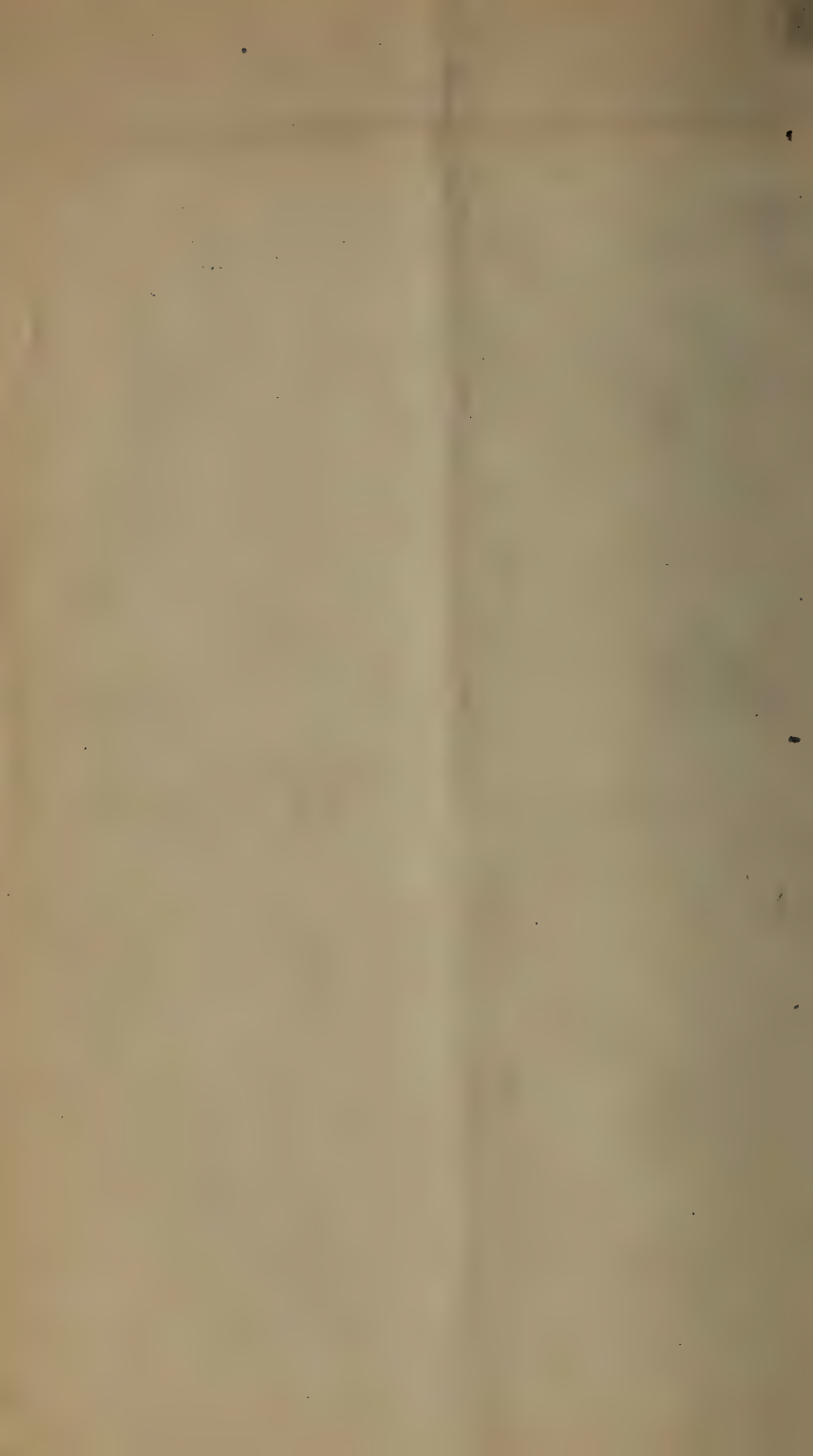
## TIMES, PLACES AND CONDITIONS OF EXAMINATIONS.

In 1882, the first examination will be held in the University buildings at Berkeley, also at Los Angeles and at Marysville, on Thursday, Friday and Saturday, June 1, 2 and 3; the second, at Berkeley only, on Wednesday, Thursday and Friday, August 9, 10 and 11.

A fee of five dollars will be charged to all applicants at Los Angeles and Marysville. This fee must be paid before the applicant enters upon the examination.

THE LIBRARY OF THE  
FEB 26 1931  
UNIVERSITY OF ILLINOIS.





3



ANNOUNCEMENT

OF THE

DENTAL DEPARTMENT

OF THE

UNIVERSITY OF CALIFORNIA

THE LIBRARY OF THE  
FEB 26 1931

FOR ITS

UNIVERSITY OF ILLINOIS.

SECOND SESSION

OF




1883.

---

N. B.—Those who wish to receive the Announcement, are requested to forward their Names and Addresses to the Dean.

---

GEO. SPAULDING & CO., PRINTERS, 414 CLAY STREET, SAN FRANCISCO







ANNOUNCEMENT  
OF THE  
DENTAL DEPARTMENT  
OF THE  
UNIVERSITY OF CALIFORNIA,

FOR ITS

SECOND SESSION  
OF  
1883.

THE LIBRARY OF THE  
FEB 26 1931  
UNIVERSITY OF ILLINOIS.

---

N. B.—Those who wish to receive the Announcement, are requested to forward their Names and Addresses to the Dean.

---

# CONTENTS.

---

## *DENTAL DEPARTMENT.*

BOARD OF REGENTS	3
FACULTY,	4
ANNOUNCEMENT,	5
PETITION OF MEDICAL DEPARTMENT TO REGENTS,	5
REPORT OF COMMITTEE ON INSTRUCTION AND VISITATION,	6
ADOPTION OF THE REPORT BY THE REGENTS,	7
STATEMENT OF FACULTY,	7
PRELIMINARY TERM AND TIME TABLE,	10
REGULAR TERM,	10
ORDER OF LECTURES OF REGULAR TERM,	11
REQUIREMENTS FOR ADMISSION,	11
PRELIMINARY EXAMINATIONS,	11
REQUIREMENTS FOR GRADUATION,	12
FEES,	12
TEXT BOOKS,	13
DUTIES OF PROFESSOR OF OPERATIVE DENTISTRY,	14
DUTIES OF PROFESSOR OF DENTAL PATHOLOGY AND THERAPEUTICS,	14
DUTIES OF PROFESSOR OF MECHANICAL DENTISTRY,	15
DUTIES OF PROFESSOR OF PHYSIOLOGY,	15
DUTIES OF PROFESSOR OF CHEMISTRY AND MATERIA MEDICA,	15
DUTIES OF PROFESSOR OF ANATOMY,	15
DUTIES OF PROFESSOR OF SURGERY,	16
PRACTICAL ANATOMY,	16
OPERATING ROOMS AND LABORATORY,	16
CLINICAL INSTRUCTION,	16
HOSPITALS,	17
NOTICE OF LONG TERM,	17
LIBRARY AND MUSEUM,	17
MATRICULATES,	18
GRADUATES,	19
MEDICAL DEPARTMENT,	20

## *LITERARY AND SCIENTIFIC DEPARTMENTS.*

FACULTY,	21
REGULAR COURSES LEADING TO A DEGREE,	22
IRREGULAR COURSES NOT LEADING TO A DEGREE,	23
REQUIREMENTS FOR ADMISSION,	24
CLASSICAL COURSE,	25
LITERARY COURSE,	26
COURSE IN LETTERS AND SCIENCE,	27
TIMES, PLACES AND CONDITIONS OF EXAMINATIONS,	28
ORDER AND HOURS OF EXAMINATIONS,	29
PRELIMINARY EXAMINATIONS,	30
TUITION,	31
BOARD AND LODGING,	31

# BOARD OF REGENTS.

## University of California.

### EX-OFFICIO REGENTS.

HIS EXCELLENCY GEORGE STONEMAN,	- - -	SACRAMENTO.
<i>Governor, ex-officio President of the Board.</i>		
HIS HONOR JOHN DAGGETT,	- - - - -	LOS ANGELES.
<i>Lieutenant-Governor.</i>		
HON. H. M. LARUE	- - - - -	SACRAMENTO.
<i>Speaker of the Assembly.</i>		
HON. W. T. WELCKER,	- - - - -	SACRAMENTO.
<i>State Superintendent of Public Instruction.</i>		
HON. H. M. LARUE,	- - - - -	SACRAMENTO.
<i>President of the State Agricultural Society.</i>		
P. B. CORNWALL,	- - - - -	SAN FRANCISCO.
<i>President of the Mechanics' Institute.</i>		
W. T. REID, A.M.,	- - - - -	BERKELEY.
<i>President of the University.</i>		

### \* APPOINTED REGENTS.

NAME.	RESIDENCE.	TERM EXPIRES.
REV. HORATIO STEBBINS, D.D.	San Francisco,	1894.
HON. SAMUEL B. MCKEE,	Oakland,	1884.
HON. JOHN S. HAGER,	San Francisco,	1896.
HON. J. WEST MARTIN,	Oakland,	1888.
HON. JOHN F. SWIFT,	San Francisco,	1898.
A. S. HALLIDIE, ESQ.,	San Francisco,	1892.
HON. JOS. W. WINANS,	San Francisco,	1890.
HON. WM. T. WALLACE,	San Francisco,	1886.
PROF. GEORGE DAVIDSON,	San Francisco,	1884.
JOHN L. BEARD, ESQ.,	Mission of San José,	1892.
HON. A. L. RHODES,	San José,	1888.
PROF. WM. ASHBURNER,	San Francisco,	1896.
HON. LELAND STANFORD,	San Francisco,	1898.
HON. T. GUY PHELPS,	Belmont,	1896.
HON. N. GREENE CURTIS,	Sacramento,	1890.
I. W. HELLMAN, ESQ.,	Los Angeles,	1886.

\* In order of appointment.

# UNIVERSITY OF CALIFORNIA.

## Dental Department.

CORNER OF STOCKTON AND FRANCISCO STREETS.

---

### FACULTY.

WILLIAM T. REID, A.M.,

*President of the University and ex-officio President of the Faculty.*

A. F. McLAIN, M.D., D.D.S.,

*Professor of Dental Pathology and Therapeutics.*

S. W. DENNIS, M.D.,

*Professor of the Principles and Practice of Operative Dentistry and Dental Histology.*

C. L. GODDARD, A.M., D.D.S.,

*Professor of Mechanical Dentistry.*

M. W. FISH, M.D.,

*Professor of Physiology.*

W. E. TAYLOR, M.D.,

*Professor of the Principles and Practice of Surgery.*

A. L. LENGFELD, M.D.,

*Professor of Chemistry and Materia Medica.*

WILLIAM B. LEWITT, M.D.,

*Professor of Anatomy.*

---

### DEMONSTRATORS.

M. J. SULLIVAN, D.D.S.,

*Demonstrator of Operative Dentistry.*

J. W. EDWARDS,

*Demonstrator of Mechanical Dentistry.*

WILLIAM B. LEWITT, M.D.,

*Demonstrator of Anatomy.*

E. O. COCHRANE,

*Demonstrator of Continuous Gum Work.*

---

### CLINICAL INSTRUCTORS.

F. W. BLISS, D.D.S.,

H. C. DAVIS, L. D. S.,

L. L. DUNBAR, D.D.S.,

R. W. HENDERSON,

WM. B. KINGSBURY,

H. E. KNOX, D.D.S.,

J. A. W. LUNDBORG,

H. J. PLOMTEAUX, D.D.S.,

MAX SICHEL.

C. L. GODDARD, Dean of the Faculty,

200 Post St., San Francisco.



# DENTAL DEPARTMENT.

---

## ANNOUNCEMENT.

With this announcement the Dental Department of the University of California enters upon the second year of its existence.

The number of students has far exceeded the expectations, and even the fond hopes of its founders and friends, and the success of the College seems fully assured.

The Faculty desires here to thank those who have aided by words of encouragement and substantial assistance, and to express a hope that the general interest will increase so that they may feel that their efforts to serve the profession and the people shall not be unavailing.

The following abstract from the records of the proceedings of the Board of Regents of the University of California, will be sufficient to show the first effectual step toward the founding of a Dental College upon the Pacific Slope :

## MEDICAL DEPARTMENT, UNIVERSITY OF CALIFORNIA.

SAN FRANCISCO., CAL., May 28, 1881.

*To the Honorable the Board of Regents of the University of California:*

GENTLEMEN:—We, the undersigned, members of the Faculty of the Medical Department of the University of California, would respectfully recommend that a Dental Department be established in connection with the Medical Department of the University of California, and for the following reasons, viz:

1st.—That Dentistry is an important collateral branch of Medical Science.

2d.—That Dental education is necessary for the public good.

3d.—It can be most thoroughly acquired in connection with the Medical Department, and under the management of competent men, actively engaged in the dental profession.

4th.—That the Universities of Harvard, Pennsylvania, Michigan and Vanderbilt have instituted and organized departments that are known as Dental Departments, which are now in active operation.

5th.—That if your honorable body deem it expedient, and will organize a Dental Department in the University of California, and in connection with the Medical Department of said University, we can, and will, give said Dental Department lecture and clinic room, free of expense.

6th.—We are aware that a Dental Department was partially organ-

ized sometime since, but under such circumstances that no progress has been made towards perfecting the organization, and starting it into operation.

We think, if you will organize a new Dental Department, that, with the facilities afforded by the Medical Department, it can be put in operation immediately.

We would further state that we endorse the appointments you have already made in the Dental Department.

Very respectfully,

C. M. BATES, M.D.,  
*Professor of Clinical Medicine.*  
 JAMES SIMPSON, M.D.,  
*Professor of Materia Medica and Therapeutics.*  
 R. A. McLEAN, M.D.,  
*Professor of Clinical and Operative Surgery.*  
 ALFRED W. PERRY, M.D.,  
*Professor of Medical Chemistry.*  
 W. LEWITT, M.D.,  
*Professor of Anatomy.*  
 W. F. McNUTT, M.D., F.R.C.S.,  
*Professor of Principles and Practice of Medicine.*  
 HENRY FERRER, M.D.  
*Professor of Pathology and Microscopy.*  
 W. E. TAYLOR, M.D.,  
*Professor of Principles and Practice of Surgery.*  
 W. H. MAYS, M.D.,  
*Lecturer on Obstetrics and Gynecology.*  
 F. W. HATCH, A.M., M.D.,  
*Professor of Hygiene.*

---

The foregoing petition was referred by the Board of Regents to the Committee of Instruction and Visitation, who reported, August the 1st, 1881, as follows:

“In the matter of the petition of the Faculty of the Medical Department of the University for the establishment of a Dental Department, the committee beg to report their approval of the object of the petition, and recommend that the whole matter be referred to a committee of the Board, to confer with the Dean of the Medical Faculty, and report a plan of organization of said Department.

REV. HORATIO STEBBINS, D.D.  
 Prof. GEORGE DAVIDSON,  
 Prof. WILLIAM ASHBURNER,  
 Hon. B. B. REDDING,  
 Hon. FRED. M. CAMPBELL,

*Committee.”*

September 7th, 1881.

The following report of the Committee of Instruction and Visitation was unanimously adopted by the Board of Regents:

FIRST. That a Dental Department be established in connection with the Medical Department of the University, and the same be organized with:—

1st.—A Professor of the Principles and Practice of Operative Dentistry.

2d.—A Professor of Dental Pathology and Therapeutics.

3d.—A Professor of Dental Art and Mechanism.

4th.—A Professor of Physiology.

5th.—A Professor of Chemistry.

6th.—A Professor of Anatomy.

7th.—A Professor of Surgery.

That S. W. Dennis, M.D., D.D.S., be appointed Professor of the Principles and Practice of Operative Dentistry. [Re-appointed.]

That A. F. McLain, M.D., D.D.S., be appointed Professor of Dental Pathology and Therapeutics. [Re-appointed.]

That C. L. Goddard, A.M., D.D.S., be appointed Professor of Dental Art and Mechanism.

That M. W. Fish, M.D., be appointed Professor of Physiology.

That A. W. Perry, M.D., be appointed Professor of Chemistry.

That William Lewitt, M.D., be appointed Professor of Anatomy; and

That W. E. Taylor, M.D., be appointed Professor of Surgery.

Attest:

J. H. C. BONTE,  
Secretary of the Board of Regents.

In addition we would state that the Board of Regents of the University of California, in conjunction with the Medical Faculty thereof, has instituted and organized this Department as an integral part of the State University, and for the following reasons, namely:

FIRST. In deference to the opinion so often expressed by the profession and the people, individually and collectively, in favor of a Dental College, as a much desired object and public necessity.

SECOND. From a desire to comply with the public wants and requirements by enlarging the opportunities and facilities for both general and special culture in the University of California, and upon the Pacific Coast.

THIRD. Recognizing the importance and beneficence which the art and science of dental surgery, as a collateral branch of medicine, bears upon the health and comfort of the human family.

FOURTH. Appreciating the necessity for the proper training and instruction of those who propose to assume the important duties and responsibilities of this profession.

FIFTH. Recognizing the great extent of territory embraced in the Pacific Slope, and knowing the wide belt of country without educational facilities, connecting the Pacific States and Territories with the Atlantic States.

SIXTH. From a desire to relieve those who wish to acquire a dental education from the anxieties, cares, and great expense incident to so long a journey and stay as was necessary to acquire a thorough professional training or knowledge sufficient to command public confidence, and meet their requirements.

We would further state, that the great progress of Dentistry has given it rank among the liberal professions, and that rank and progress can be maintained in the future, only by liberal studies.

In accordance with the petition already submitted, the Dental Department of the University of California, will be accommodated in the Medical Hall of the University, ample provisions having been made for lecture and clinic room, through the generous offer of the Medical Faculty.

The lecture rooms are large, well ventilated and lighted. There will be ample room for all clinical purposes, and it is expected that there will be an abundance of clinical material for practical instruction in all the principles taught in the college.

All instruction from the medical Chairs, utilized in the Dental Department, will be given to students in dentistry conjointly with that given to the medical students, and the Dental instruction will be separate, but all under the same roof.

---

We submit the following extract from the announcement of the Medical Department of the University of California, for the consideration of those who contemplate taking a dental course:



"While the several other colleges of the State University are clustered at Berkeley, its Medical Department is, for convenience of clinical study, conducted wholly, or almost wholly, in San Francisco. The advantages for demonstrative teaching presented by a seaport city of nearly 300,000 inhabitants, will be recognized as almost unbounded.

"The college building known as Toland Hall, a massive brick and stone edifice, is one of the most complete and stately medical colleges in the country. It is situated on North Beach, overlooking the Bay, the locality being one where the health and industrious habits of the student are promoted by quietness and pure air.

"The main lecture hall of the college is capable of seating 500 persons. The clinical amphitheatre is about equally capacious.

"The museum contains an extensive collection of specimens and preparations.

"The dissecting room is fitted up with all the modern improvements.

"The laboratory is replete with all chemicals and apparatus necessary for practical teaching.

"A suite of apartments in the building is set apart for the dispensary clinics."

There are two large and convenient dental operating rooms, with windows, of extra width and height, thus giving light that is unsurpassed. They are furnished with both Morrison and Archer chairs and handsome operating stands, which will be assigned to students in the order of their matriculation. The mechanical laboratory is commodious, and furnished with benches, lathes, furnaces, and all other requisites for thorough work. Each student is required to furnish his own instruments and tools, and will be provided with a separate drawer in which they can be securely locked. Those who have operating instruments and laboratory tools and appliances should bring them; those who have not are advised to defer purchasing till they arrive. Lists will be furnished when desired. During the hours devoted to operative and mechanical dentistry, competent demonstrators will be present to assign patients to students, and superintend and assist them in their operations.

Both the Medical and Dental Departments of the University of California, unlike corresponding Colleges of the Eastern States, have their preliminary term in the Spring, and the regular term in the Summer.



# CALENDAR.

---

## PRELIMINARY TERM.

The Preliminary Term will commence March 2d, 1883, and continue eight weeks.

During this term subjects are dwelt upon that do not receive their full meed of attention during the regular term. Clinics proceed at the Hospital as during the Regular Term. The Dissecting Room is open for practical work. The Dental Dispensary and Laboratory will be open at the regular hours for students' clinics, and on Saturday afternoons there will be dental clinics by the Clinical Instructors.

## MONDAY.

- 9 to 11 A. M. Dental Dispensary—Operative Dentistry.
- 11 A. M. Prof. Taylor—Operative Surgery and Anæsthetics.
- 12 M. to 2 P. M. Dental Laboratory—Mechanical Dentistry.
- 4 P. M. Prof. Dennis—Operative Dentistry and Dental Histology.

## WEDNESDAY.

- 9 A. M. Prof. Lengfeld—Urinary Analysis and Prescription Writing.
- 10 A. M. Dental Dispensary—Operative Dentistry.
- 11 A. M. Prof. Taylor—Operative Surgery and Anæsthetics.
- 12 M. to 2 P. M. Dental Dispensary—Mechanical Dentistry.
- 2 P. M. Prof. W. B. Lewitt—Anatomy of the Joints.
- 3 P. M. Prof. Fish—Histology.

## FRIDAY.

- 9 to 11 A. M. Dental Dispensary—Operative Dentistry.
- 11 A. M. Prof. Taylor—Operative Surgery and Anæsthetics.
- 12 M to 2 P. M. Dental Dispensary—Mechanical Dentistry.
- 3 P. M. Prof. A. F. McLain—Dental Pathology and Therapeutics.
- 4 P. M. Prof. Goddard—Mechanical Dentistry.

## SATURDAY.

- 2 P. M. Dental Dispensary—Clinical Instructors.

## REGULAR TERM.

The Regular Term will commence on the 1st of June, 1883, and end on the last of October, 1883.

## SCHEDULE OF STUDY.

### ORDER OF LECTURES AND CLINICS FOR THE REGULAR TERM.

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY	THURSDAY.	FRIDAY.	SATURDAY.
9 A. M. to 11 A. M.	OPERATIVE DENTAL CLINIC.					Hospital, Medical and Surgical Clinics, From 9 A. M. to 12 M.
11 A. M.	TAYLOR, Surgery.		TAYLOR, Surgery.		TAYLOR, Surgery.	
12 M. to 2 P. M.	MECHANICAL DENTAL CLINIC.					
2.30 P. M.		LENGFELD, Chemistry and Materia Medica.		LENGFELD, Chemistry and Materia Medica.		
3 P. M.	FISH, Physiology.		FISH, Physiology.		FISH, Physiology.	CLINICAL INSTRUCTORS From 2 P. M. to 5 P. M.
4 P. M.	LEWITT, Anatomy.	DENNIS, Operative Dentistry.	LEWITT, Anatomy.	DENNIS, Operative Dentistry.	LEWITT, Anatomy.	
P. M.	GODDARD, Mechanical Dentistry.	McLAIN, Pathology and Therapeutics.		GODDARD, Mechanical Dentistry.	McLAIN, Pathology and Therapeutics.	

Students who prefer may attend Hospital Clinics Tuesdays and Thursdays instead of Dental Clinics.

### REQUIREMENTS FOR ADMISSION.

Every candidate for admission must be 18 years of age, and is required to present to the Faculty satisfactory evidence of a good moral character.

### PRELIMINARY EXAMINATIONS.

The Faculty hereby gives notice that examinations of candidates for admission will be instituted to take effect upon the opening of the Regular Summer Session, commencing June 1st, 1883.

All matriculates, previous to that date, will be exempt from the preliminary examination.

All matriculates, after that date, will be required to write a brief essay, not less than one page of foolscap, which will serve as a test of their qualifications in orthography and grammar; and also undergo an examination in the elementary principles of physics and mathematics.

Satisfactory evidence of having received a collegiate degree, or having graduated at a recognized college or high school, will exempt the candidate from this preliminary examination.

At the end of the first year's study there will be a preliminary examination in Anatomy, Physiology, Chemistry and Mechanical Dentistry.

### REQUIREMENTS FOR GRADUATION.

The candidate for the degree of Doctor of Dental Surgery must have attained the age of twenty-one years, and be of good moral character.

He shall have passed a satisfactory examination, both oral and written.

He shall have studied dentistry two years, including the time spent in attending lectures.

He shall have attended two full courses in the Dental Department of the University of California, or one year in some other reputable Dental College, and the second or last in this college.

He may write an original thesis upon some subject pertaining to Dentistry or Medicine.

The candidate is required to dissect at least two parts. He must treat thoroughly some patient requiring all the usual dental operations, and bring such patient before the Professors of Operative Dentistry, and Dental Pathology and Therapeutics. He must also take up at least one artificial case, and, after it is completed, bring his patient before the Professor of Mechanical Dentistry at least thirty days before the close of the term. He must also prepare a specimen case, to be deposited in the college collection, and present the same to the Professor of Mechanical Dentistry before the 1st of October. The operating must be performed, and the work on the artificial cases done, at the college building.

Graduates in Medicine may apply for the Degree of Doctor of Dental Surgery upon attending one full year in the Dental Department of the University of California.

Dentists of seven years practice may apply for the Degree of Doctor of Dental Surgery after having attended one full course in the University of California.

After these requirements have been complied with, upon the recommendation of the Faculty, and approval of the Board of Regents, the candidate shall receive the Degree of Doctor of Dental Surgery.

Students who have had no office instruction before attending lectures, are advised to attend three courses. No fees will be required for the third course except that of the Demonstrator of Anatomy.

### FEES.

The Matriculation Fee will be (paid once),	-	-	-	\$5.00
Tuition,	-	-	-	100.00
Demonstrators' Fees,	-	-	-	30.00
Diploma Fee,	-	-	-	30.00

# TEXT BOOKS.

---

ANATOMY—*Gray.*

DENTAL ANATOMY—*Tomes.*

PHYSIOLOGY—*Dalton or Flint.*

HISTOLOGY—*Stricker, Frey, Beal and Wythe.*

PATHOLOGY—*Wagner.*

DENTAL PATHOLOGY—*Wedl.*

Oral Surgery—*Garretson.*

OPERATIVE DENTISTRY—*Taft or Harris.*

MECHANICAL Dentistry—*Richardson.*

ORAL DEFORMITIES—*Kingsley.*

DENTAL METALLURGY—*Essig.*

CHEMISTRY—*Atfield.*

THERAPEUTICS—*Wood, Biddle or Bartholow.*

MEDICAL DICTIONARY—*Dungleson.*

DENTAL DICTIONARY—*Harris.*

MATERIA MEDICA—*U. S. Pharmacopœia.*

# OUTLINE OF THE COURSE OF STUDY.

---

## PRINCIPLES AND PRACTICE OF OPERATIVE DENTISTRY AND DENTAL HISTOLOGY.

It will be the aim of the incumbent of this chair, as it is the object of it, to give a comprehensive course upon all of the principles underlying this branch of Dental Science. The means and methods at present used in practice will be fully considered; also, a comparison will be made of the present and former systems of operating.

The intra and extra uterine development of the teeth will be fully dwelt upon, from the inception to the shedding of the temporary or deciduous set on to the full and complete eruption of the permanent set and their final loss.

The topographical and general, as well as the minute or histological anatomy of the teeth will be fully illustrated.

The Principles of the Microscope, and the application of them to the study of the laws of life, health and disease will demand a share of his attention.

The Principles and Practice of Operative Dentistry embrace so much that the Lecturer from this Chair may necessarily encroach upon the field of several others; but should this be the case, it will be only the outgrowth of a desire to make the course as instructive, and interesting and comprehensive as possible.

---

## DENTAL PATHOLOGY AND THERAPEUTICS.

The lectures delivered by the incumbent of this Chair will embrace a full and comprehensive course on the following topics:

1. GENERAL PATHOLOGY—In which will be discussed those general aspects of disease with which it is necessary to be acquainted, in order to be able to understand the nature of any departure from health; causes of disease, symptoms, diagnosis, prognosis, temperaments, pathology of anæsthetics, irritation, determination, congestion, inflammation and its terminations:—effusion, suppuration, ulceration, gangrene, sloughing, morbid growths, etc.

2. SPECIAL PATHOLOGY—In which a critical examination will be made into the special causes of dental decay; dental hygiene and prophylaxis; diseases of the enamel—of the dentine; diseases of the dentinal pulp—together with the causes of alveolar abscess—its stages and results; exostosis of the roots and alveoli; necrosis and exfoliation; diseases of the antrum; tumors, benign and malignant; diseases of the buccal mucous membranes.

Neuralgia and other nervous affections will receive such attention as their importance may demand, and besides there will be presented such



other special diseases as may in any degree be of interest to the Dental Practitioner, such as scurvy, scrofula, rachitis, and other diseases of the bones.

3. **GENERAL PRINCIPLES OF THERAPEUTICS**—Under which head the general application of medicines will be noticed—their action, constitutional and topical.

4. **SPECIAL THERAPEUTICS**—In connection with Dental Materia Medica, as incidentally related thereto.

---

### MECHANICAL DENTISTRY.

The instruction in Mechanical Dentistry will embrace everything necessary to enable the dentist successfully to supply substitutes for lost dental organs.

Special reference will be made to the principles involved in the restoration of the natural functions of the teeth, namely:—mastication, enunciation, and expression of the features, keeping in view always, the health and the future usefulness of the living parts.

The various mechanical means employed in correcting irregularities will be explained and illustrated.

In the Laboratory, ample opportunities will be given to each student to perform, under the supervision of practical Demonstrators, every operation in Mechanical Dentistry.

---

### PHYSIOLOGY.

The Lectures in this department, by Professor Fish, embrace a consideration of both General and Special Physiology; including all that has been developed up to the present time, and are illustrated by the largest and most complete series of colored drawings in the United States, prepared exclusively for these lectures. Besides which, the vast collection of preparations and drawings of the Scientific Department at Berkeley are at the command of the Professor. Vivisections are practiced when necessary to demonstrate principles, and the microscope is freely used for illustrating important facts and principles.

---

### CHEMISTRY AND MATERIA MEDICA.

Professor Lengfeld will spare no effort to make the course in chemistry and materia medica thoroughly practical and instructive. All important principles are illustrated by means of suitable philosophical, chemical and other apparatus, and facts and theories are presented in a clear and comprehensive manner.

---

### ANATOMY.

Professor W. B. Lewitt's lectures on anatomy are illustrated fully by

the cadaver, and by both wet and dry preparations, models, manikins, and drawings, and include a course on general, special and topographical anatomy, thus preparing the student for active surgical practice, as well as giving him a thorough knowledge of the relation of organs. Before each lecture a short examination is held on the subject of the preceding lecture.

---

### **SURGERY.**

Professor Taylor delivers three lectures each week on the Art and Science of Surgery. The more recent views on the management of surgical conditions and the appliances devised for their relief are particularly dwelt upon, and illustrated with drawings and models when necessary. This course will include a series of lectures upon Operative Surgery, with demonstrations on the cadaver. The student will be drilled in the manipulation of instruments used in the various operations.

In addition to his usual course of lectures on surgery, he will pay particular attention to surgical diseases and injuries of the head, face, jaws and mouth.

---

### **PRACTICAL ANATOMY.**

The dissecting-room of the University is spacious, well ventilated, well lighted from above, and provided with every convenience. It is open throughout the year under the superintendence of the Professor of Anatomy and the Demonstrator of Anatomy. A full supply of material is always procurable at small cost, and is thoroughly preserved from decomposition. When the dissections are conducted in a diligent manner, the student is furnished by the Demonstrator with certificates stating the amount and part dissected. The Dissecting Ticket (\$10.00) is good for the whole year, from January 1st to December 31st.

---

### **OPERATING ROOMS AND LABORATORY.**

The Operating Rooms and Laboratory are open during both the preliminary and regular courses, when ample opportunities will be afforded the students to pursue the practical part of his studies under the guidance and supervision of competent demonstrators. The supply of patients during the first term was abundant, and there is every reason to expect a larger supply in the future.

---

### **CLINICAL INSTRUCTION.**

During both courses, Saturday afternoons will be devoted to clinical lectures and operations by the Professors and Clinical Instructors.

## HOSPITALS.

All students in Dentistry will have all the facilities and opportunities enjoyed by the medical students in hospital practice and observation. They will have the freedom, as above represented, of the City and County Hospital, City Receiving Hospital, San Francisco Female Hospital.

Medical and Surgical clinical lectures are given by the Professors of the Medical Department at the City and County Hospital, Tuesdays, Thursdays and Saturdays, from 9 to 11 A. M.

For further particulars on this subject, see Medical Department announcement.

---

## NOTICE OF A LONG TERM.

The Medical Department has decided to make a change in their course of lectures in 1884. The regular course will then continue nine months, with a vacation of one month in the middle of the term. This will take the place of both the preliminary and regular terms.

The Dental Department expects to conform in 1884, to this change, and give a nine months' course of instruction, with a vacation in the middle of the term.

The advantage of this change will be obvious to all, as the number of lectures each day will be less, and more time will be left for study, hospital clinics, actual practice on College patients, and dissecting. By delivering more lectures, the Faculty can enter more into the minutiae of the various topics, and they will also have more time for "quiz questions."

---

## LIBRARY AND MUSEUM.

A nucleus has been formed from which it is hoped a large library and museum will grow. All members and friends of the profession are invited to contribute books, pamphlets and journals, charts, anatomical, physiological and pathological specimens, casts of deformities and irregularities of the teeth and associate parts, or anything that will be useful or instructive.

These contributions will be placed in the library and museum, and marked with the name of the donor if desired.

Any specimens which the owners do not wish to contribute, but which they will deposit in the museum, will be carefully used and returned when desired. For further information, address

C. L. GODDARD, Dean.  
200 Post Street, San Francisco, Cal.

N. B.—BOARDING. The expense of living in the city of San Francisco is not great. Good board, with room rent, may now be procured at the low rate of \$5 per week, at a convenient distance from the College building. Students from a distance may learn the addresses of these boarding houses, and other information, by calling on the Dean of the Faculty.

## Matriculates.

### SESSION OF 1882.

NAME.	STATE.	PRECEPTOR.
ALFRED EDWARD BLAKE.....	California.....	Dr. C. E. Blake, Sr.
FRED. AUG. BLISS.....	California.....	F. W. Bliss, D.D.S.
JOHN NELSON BLOOD.....	California.....	H. J. Plomteaux, D.D.S.
CHARLES BOXTON.....	California	Dr. M. Sichel and C. W. Richards, D.D.S.
MARIA ANGELINA BURCH.....	California.....	Prof. S. W. Dennis.
ALFRED ARTHUR CHISHOLM. ....	British Columbia.....	Dr. T. Bolton.
EDWIN OVERTON COCHRANE.....	California.....	Dr. J. W. Allen.
RUSSELL HOPKINS COOL.....	California.....	Dr. Geo. W. Cool.
GEORGE WASHINGTON COOL.....	California.....	Dr. R. H. Cool.
JOHN W. CRAIG.....	California.....	Dr. E. O. Cochrane.
JOHN HENRY DECKER.....	California.....	Dr. Chas. W. Decker.
CHAS. SAMUEL DUCKETT.....	England.....	
MILTON F. GABBS.....	California.....	Dr. E. S. Gabbs.
THOMAS WATSON HALL.....	California.....	H. J. Plomteaux, D.D.S.
CHARLES WESLEY HIBBARD.....	California.....	Dr. J. W. Meredith.
WM. HORACE HOGSHEAD.....	California.....	Dent. Dep. Univ. of Cal.
HAMILTON IRWIN LIGHTBODY.....	New York.....	H. E. Knox, D.D.S.
CHAS. CARLOS LORD.....	Missouri.....	H. C. Davis, L.D.S.
FRANKLIN F. LORD, M.D.....	California.....	Med. Dept. Univ. of Cal.
WALTER CURRY LUBBOCK.....	California.....	
THOMAS MORFFEY.....	California.....	Prof. S. W. Dennis.
ROBERT NICHOL.....	Scotland.....	Dent. Dept. Univ. of Cal.
HENRY JOHN PLOMTEAUX.....	California.....	J. D. Anderson, D.D.S.
WM. EDMUND PRICE. ....	California.....	Dr. J. S. Knowlton.
CHAS. WESLEY RICHARDS.....	California.....	
GUSTAVE LUDWIG SCHMIDT.....	California.....	
GUSTAV WM. SICHEL, M.D.....	California.....	Med. Dept. Univ. of Cal.
WILLIAM HARRY STANLEY.....	California.....	Dr. E. G. Blackman.
HENRY SYLVESTER, JR.....	California.....	Dr. E. O. Cochrane.
JOSEPH FRANKLIN TWIST.....	California.....	Dent. Dept. Univ. of Cal.
AUGUST VAN CROMBRUGGHE.....	California.....	H. C. Davis, L.D.S.



## Graduates.

### SESSION OF 1882.

The first Commencement Exercises were held at B'nai B'rith Hall, San Francisco, Cal., November 8th, 1882, at 8 o'clock, P. M.

Addresses were delivered by Gov. Geo. C. Perkins and Rev. Horatio Stebbins, D.D. The valedictory for the Faculty was delivered by the Dean, Prof. S. W. Dennis, M.D., D.D.S., and that for the graduating class by H. J. Plomteaux.

The degree of Doctor of Dental Surgery was conferred by W. T. Reid, A. M., President of the University, upon the following candidates:

NAME.	STATE.	YEARS OF PRACTICE.	THESIS.
THOMAS WATSON HALL....	California..	7..	Impressions of the Mouth.
CHAS. WESLEY HIBBARD.....	California..	8..	Deterioration of Tooth Structure.
THOMAS MORFFEY.....	California..	12..	Neuralgia.
HENRY JOHN PLOMTEAUX....	California..	22..	Some of the Requirements of a Dental College.
CHAS. WESLEY RICHARDS.....	California..	10..	Abscess.
WILLIAM HARRY STANLEY....	California..	16..	The Dentist in his Office.
GUSTAV WM. SICHEL, M.D....	California..	5..	Clinics.
AUGUST VAN CRUMBRUGGHE...	California..	7..	Caries.



# UNIVERSITY OF CALIFORNIA.

---

## Department of Medicine.

---

### FACULTY.

W. T. REID, A.M., *President of the University.*

R. BEVERLY COLE, A.B., M.D., M.R.C.S., Eng., *Professor of Obstetrics and Gynecology.*

M. W. FISH, M.D., *Professor of Physiology and Microscopy.*

F. W. HATCH, A.M., M.D., *Professor of Hygiene.*

G. A. SHURTLEFF, M.D., *Professor of Mental Diseases and Medical Jurisprudence.*

ROBERT A. McLEAN, M.D., *Professor of Clinical and Operative Surgery.*

WILLIAM B. LEWITT, M.D., *Professor of Anatomy.*

W. F. McNUTT, M.D., M.R.C.P., Edin., etc., etc., *Professor of Principles and Practice of Medicine.*

W. E. TAYLOR, M.D., *Professor of Principles and Practice of Surgery.*

A. M. WILDER, M.D., *Professor of Ophthalmology and Otology.*

F. B. KANE, M.D., M.R.C.S.I., *Professor of Clinical Medicine and Pathology.*

A. L. LENGFELD, M.D., *Professor of Materia Medica and Medical Chemistry.*

W. H. MAYS, M.D., *Lecturer on Clinical Gynecology.*

W. B. LEWITT, M.D., *Demonstrator and Assistant Lecturer on Anatomy.*

ROBERT A. McLEAN, M.D., DEAN,  
603 Merchant Street, corner Montgomery, San Francisco.

---

### CALENDAR.

The PRELIMINARY TERM for 1883 will commence February 1st and terminate April 30th.

The REGULAR TERM will commence June 1st and terminate October 31st.

The Lectures of both Courses are delivered at the College Building (Toland Hall), Stockton Street, below Chestnut, San Francisco.

The Annual Commencement for conferring the Degree of Doctor of Medicine, will be held early in November in San Francisco.

# Literary and Scientific (Undergraduate) Departments

OF THE

## UNIVERSITY OF CALIFORNIA,

INCLUDING

- |  |                            |
|--|----------------------------|
| 1. COLLEGE OF LETTERS<br>(CLASSICAL COURSE). | 4. COLLEGE OF MINING.      |
| 2. COLLEGE OF AGRICULTURE.                   | 5. COLLEGE OF ENGINEERING. |
| 3. COLLEGE OF MECHANICS.                     | 6. COLLEGE OF CHEMISTRY.   |
|  | 7. LITERARY COURSE.        |
| 8. COURSE IN LETTERS AND SCIENCE.            |                            |

## FACULTIES OF COLLEGES OF SCIENCE AND LETTERS.

- WILLIAM T. REID, A. M., *President of the University.*  
 WILLIAM ASHBURNER, *Honorary Professor of Mining.*  
 GEO. WOODBURY BUNNELL, A. M., *Professor of the Greek Language and Literature.*  
 ALBERT S. COOK, PH. D., *Professor of the English Language and Literature.*  
 GEO. DAVIDSON, A. M., *Honorary Professor of Geodesy and Astronomy.*  
 STEPHEN J. FIELD, LL.D., *Honorary Professor of Law.*  
 FREDERICK G. HESSE, *Professor of Industrial Mechanics.*  
 EUGENE W. HILGARD, PH. D., *Professor of Agriculture, Agricultural Chemistry, General and Economic Botany.*  
 MARTIN KELLOGG, A. M., *Dean and Professor of the Latin Language and Literature.*  
 JOHN LeCONTE, M. D., LL. D., *Professor of Physics.*  
 JOSEPH LeCONTE, *Professor of Geology and Natural History.*  
 BERNARD MOSES, PH. D., *Professor of History and Political Economy.*  
 WILLARD B. RISING, PH. D., *Professor of Chemistry.*  
 FRANK SOULE, JR. (*U. S. Military Academy*), *Professor of Civil Engineering and Astronomy.*  
 IRVING STRINGHAM, PH. D., *Professor of Mathematics.*  
 DAVID BARCROFT, PH. B., *Instructor of Engineering.*  
 ROSS E. BROWNE, *Instructor in Mechanical and other Branches of Instrumental Drawing.*  
 C. B. BRADLEY, A. M., *Instructor in English.*  
 SAMUEL B. CHRISTY, PH. B., *Instructor in Mining and Metallurgy.*  
 JOHN B. CLARKE, PH. B., *Instructor in Mathematics.*  
 CHARLES H. DWINELLE, PH. B., *Lecturer on Practical Agriculture.*  
 GEORGE C. EDWARDS, PH. B., *Instructor in Mathematics.*  
 A. WENDELL JACKSON, JR., PH. B., *Instructor in Mineralogy.*  
 HENRY B. JONES, *Assistant Instructor in French.*  
 WM. CAREY JONES, A. M., *Recorder and Instructor in United States History and Constitutional Law.*  
 EDMUND C. O'NEIL, PH. B., *Instructor in Chemistry.*  
 ALBIN PUTZKER, *Instructor in German.*  
 JOSEPH C. ROWELL, A. B., *Librarian.*  
 E. H. SEARS, A. B., *Instructor in Latin and Greek.*  
 F. SLATE, JR., *Superintendent of the Physical Laboratory.*  
 MYER E. JAFFA, PH. B., *Assistant in Agricultural Chemistry.*  
 FREDERICK W. MORSE, PH. B., *Assistant in Viticultural Laboratory.*  
 J. J. RIVERS, *Curator of the Museum.*

# COLLEGES OF LETTERS AND OF SCIENCE.

---

This department of the University comprises the College of Letters, embracing a Classical Course; the College of Science, embracing Agriculture, Mechanics, Mining, Engineering, and Chemistry; a Literary Course; a Course in Letters and Science; and certain irregular courses not leading to a degree.

---

## REGULAR COURSES LEADING TO A DEGREE.

*The completion of either of the eight following named courses usually requires four years.*

The Classical Course leads to the degree of Bachelor of Arts, and corresponds to the usual academic course of the leading American colleges. It is designed to offer the best preparation for professional study, and to furnish a liberal education. Both Latin and Greek are required for this course.

The Literary Course leads to the degree of Bachelor of Letters, and has the same general purpose as the Classical Course. It is designed for students who wish to study Latin, and to enjoy a fuller course in English, French and German, than that offered by the Classical Course. Greek is not required for this course.

The Course in Letters and Science leads to the degree of Bachelor of Letters, and in it special attention is given to the English language and Literature, to modern languages, History, and Political Science. It is especially intended for students who wish a liberal course in general culture. Neither Latin nor Greek is required for this course.

The Courses in Science, Agriculture, Mechanics, Mining, Engineering, and Chemistry, lead to the degree of Bachelor of Science, and are designed to give to the student a good English education, and an introduction to the principles of modern Science, together with special instruction preparatory to a fuller course of professional study in the particular department he may choose. Neither Latin or Greek is required for these courses, but a preparatory course in Latin is recommended.

The Course in Agriculture is designed for students who wish to familiarize themselves with the sciences underlying the farmer's calling, and with the best practice of its several branches, as a preparation for the intelligent and successful exercise of their profession, whether as practical farmers, or as agricultural experts.

The Course of Mechanics is designed for students who wish to become mechanical engineers or machinists (so far as they are constructors of machinery), or to devote their energies to such technical and industrial pursuits as involve a knowledge of machinery.

The Course in Mining is designed for students who wish to become mining or metallurgical engineers, or to engage in one of the many pursuits connected with the mining industries, such as the surveying and mapping of mines, the assaying and working of ores, the designing and use of mining machinery, or the exploitation of mines.

The Course in Engineering is designed for students who wish to adopt civil engineering as a profession, and to engage in such work as the survey of lands, leveling, topographical engineering, triangular or geodetic surveying, the location and construction of roads, railways, and canals, the designing and construction of bridges of wood, iron, or stone, the building of dams, reservoirs, and systems of water supply, drainage and sewerage, and the improvement of rivers, harbors, and sea coasts.

The Course in Chemistry is designed for students who wish to become professional chemists, either as teachers or investigators, or manufacturers in chemical industries, and also for those who wish to become expert chemists preparatory to the pursuit of medicine, pharmacy, etc.

---

#### IRREGULAR COURSES NOT LEADING TO A DEGREE.

N. B.—Written application to be allowed to take either of the three following named courses, must, in all cases, and from year to year, be made at the Recorder's office. In this application the reasons for wishing to take the course must be given, and no student will be admitted to either of these courses without a certificate from the President. Students pursuing either of these courses are not enrolled in either of the college classes. Students who wish a thorough and systematic education are advised to take one of the eight regular courses.

The Student at Large Course does not lead to a degree; but students in this course may, by vote of the Faculty, be recommended to a degree upon the satisfactory completion of studies equivalent to those pursued in one of the regular courses. It is designed for students who wish to take a full, but a purely elective course. They may select studies from any of the courses, provided they satisfy the Faculty that they are fitted to take the studies selected. Candidates for this course are required to pass one of the regular admission examinations, and upon admission, to take studies enough to make up the full number of exercises required of students pursuing a regular course. Students who fail to maintain their standing as regular students will not be admitted to this course.

The Special Course does not lead to a degree, but students in this course may, upon leaving the University, receive a certificate of proficiency in the studies which they have pursued and in which they have attained marked scholarship. It is designed for students who are ma-



ture, and who wish to pursue some one line of special study and correlated branches. Students under age will not ordinarily be admitted to this course. Applicants who fail on the admission examinations, or students who fail to maintain their standing as regular students, will not be admitted to this course.

The Partial Course does not lead to a degree, but students in this course may, upon leaving the University, receive a certificate of proficiency in the studies which they have pursued and in which they have attained marked scholarship. It is designed for students who, because of ill health or other disability, are able to pursue only a limited number of studies, or to remain at the University only a short time. Applicants will not be admitted to this course until they have passed a satisfactory examination on such preparatory subjects as may be thought necessary to fit them for the studies they wish to pursue. Certificates of proficiency must be presented to the President before he will issue permission to be enrolled in this course. Applicants who fail on the admission examination, and students who fail to maintain their standing as regular students, will not be admitted to this course, and the privileges of the course will be summarily withdrawn from students whose attainments or conduct indicate a want of earnestness.

NOTE.—Before entering upon the examinations for admission, candidates will be asked to make known the course they wish to take. It is very desirable that the choice should be made as early in their preparation as possible, and under the best advice attainable. After entering upon their University course students will not be allowed to change their course except for the most urgent reasons; and students will not, under any circumstances, be allowed to change until all deficiencies in the course previously taken are made up.

---

## REQUIREMENTS FOR ADMISSION.

N. B.—All examinations are conducted in writing, except such as must of necessity be oral, such as reading and the pronunciation of a foreign language. Candidates must be at least sixteen years of age, and must present certificates of good moral character.

All candidates for courses leading to a degree, and candidates for the Student at Large Course, must pass a satisfactory examination in the five following named subjects:

I. ENGLISH. Candidates will be required to write a composition of at least two (foolscap) pages in length, correct in spelling, punctuation, grammar, and division into paragraphs, upon a subject announced at the time of the examination. It is suggested that the composition be such as one would naturally address to a friend who knew nothing of the subject, and to whom he wished to impart a clear and enjoyable idea of it. Candidates will also be expected to analyze sentences from the works used in preparation, and to pass an examination in the elements of prose composition, as contained in a book like Kellogg's Text Book on Rhetoric. Acceptable preparation is impossible without much practice in composition writing.

The subjects for 1883 will be chosen from one of the following works: Tom Brown's School Days at Rugby; Charles and Mary Lamb's Tales from Shakspeare; Dickens' Christmas Stories and David



Copperfield; Scotts' Marmion and Quentin Durward; Shakspeare's Merchant of Venice and Julius Cæsar.

For 1884 the subjects will be taken from one of the following: Tom Brown's School Days at Rugby; Irving's Sketch Book; Dickens' Christmas Stories; Scott's Lady of the Lake and Kenilworth; Shakspeare's Merchant of Venice and Julius Cæsar.

2, 3, 4. MATHEMATICS. (2) *Arithmetic*. Higher Arithmetic, including the metric system, but omitting the technical parts of commercial arithmetic. (3) *Algebra*, through quadratic equations, except for applicants for the Classical and the Literary Courses, who will be examined to quadratics. (4) *Plane Geometry*, as much as is contained in Newcomb's or Wentworth's Plane Geometry, omitting Isoperimetrical Polygons, except for applicants for the Classical and the Literary Courses, who will be examined in the equivalent of five books of Newcomb's, or four books of Wentworth's Geometry.

Candidates who intend to pursue special courses in science, or to enter either of the Colleges of Mechanics, Mining, or Engineering, are advised to prepare themselves for examination in the following additional subjects: (1) *Solid and Spherical Geometry*. (2) *Advanced Algebra*. (3) *Plane Trigonometry*, including the solution of triangles and the use of logarithmic tables. (4) *Plane Analytical Geometry*.

Those who pass these additional examinations will be admitted to advanced classes in mathematics, and will thus gain time for more advanced work in their special lines of study later in the course.

5. HISTORY AND GEOGRAPHY. History of the United States, the general facts of Physical and Political Geography. Barnes's Brief History of the United States, and the Geographies used in first grade grammar schools, will serve to indicate the amount of knowledge expected.

#### CLASSICAL COURSE.

Candidates for the Classical Course must pass a satisfactory examination on Subjects 1, 2, 3, 4, 5, as above, and on Subjects 6, 7, 8, 9, and 10, as follows:

6, 7. LATIN. (6) Cæsar, four books; the translation, at sight, of easy Latin prose (with reasonable help in vocabulary and notes); and the translation into Latin of simple English sentences, suitable to those who have taken Jones's Latin Composition. (7) Cicero, six orations; Virgil, six books of the *Æneid*. Questions on the subject-matter, on construction, on grammatical forms and on prosody, will form a part of the examinations in Cæsar, Cicero and Virgil.

8, 9. GREEK. (8) Xenophon's *Anabasis*, four books, or the first 111 pages of Goodwin's Greek Reader; and the translation at sight

of easy Greek prose (with reasonable help in vocabulary and notes.) (9) Homer's Iliad, two books, omitting catalogue of ships; and the translations into Greek of simple sentences, suited to the proficiency of those who have taken Jones's Greek Prose Composition. Questions on the subject-matter, on construction, on grammatical forms, and on prosody, will form a part of the examinations in the Anabasis and Homer.

10. HISTORY AND GEOGRAPHY. Greek history, to the death of Alexander; Roman history, to the death of Commodus; and the geography connected with the study of Greek and Roman history, and the Greek and Latin authors read. Smith's Smaller History of Greece, and Smith's (Smaller) or Leighton's History of Rome will serve to indicate the amount required.

#### LITERARY COURSE.

Candidates for the Literary Course must pass a satisfactory examination on Subjects 1, 2, 3, 4, 5, 6, 7, and 10, as above, and on Subjects 11 and 12 follows:

11. 12. Any two of the following named subjects:

(1) PHYSICS. The elements of Physics (Avery's Natural Philosophy, Peck's Ganot's Introductory Course of Natural Philosophy, or an equivalent.)

(2) CHEMISTRY. The elements of Chemistry (a thorough acquaintance with Mead's Chemical Primer, or Elliot and Storer's Chemistry, or an equivalent).

(3) BOTANY. The elements of Botany. An accurate knowledge of Part 1 of Gray's How Plants Grow, together with an acquaintance with the more prominent native or cultivated plants, their structure, and botanical affinities.

(4) PHYSIOLOGY. The elements of Physiology (Hutchinson's, or an equivalent).

(5) FREE-HAND DRAWING.

(6) MINERALOGY. The elements of Mineralogy. A good knowledge of the physical properties of minerals in general. Ability to determine by their physical properties alone, twenty-five of the commonest minerals, and to give reasons for determination. First seventy-two pages of Nichol's Manual of Mineralogy, or first seventy-five pages of Dana's third edition.

Applicants who pass with honors in Chemistry will be put in an advanced division.

## COURSE IN LETTERS AND SCIENCE, AND THE COURSES IN SCIENCE.

Candidates for the Course in Letters and Science, and for either of the Courses in Science, viz: Agriculture, Mechanics, Mining, Engineering and Chemistry, must pass a satisfactory examination on Subjects 1, 2, 3, 4, 5, 11 and 12, as above, and Subjects 13 and 14, as follows:

13. HISTORY. History of England; Anderson's will indicate the amount. General History will be accepted in exceptional cases.

14. ENGLISH. The examination in English will pre-suppose thorough study of the selections named below. The candidate should be prepared to elucidate in full, the meaning of any passage in the works assigned, and to write in good English such an essay on any one of them as would convey a clear idea of its character and scope to a person unfamiliar with the subject.

The examination will extend over two periods of an hour and a half each. Signal failures in this examination alone will subject the applicant to exclusion from the Course in Letters and Science.

The examination will be given upon the following selections; American prose: American poems; Addison's Sir Roger de Coverly; Milton's l'Allegro and Il Penseroso; Byron's Prisoner of Chillon; Goldsmith's Deserted Village and Traveler; Burn's Cotter's Saturday Night; Scott's Lay of the Last Minstrel; Bacon's Essays of Truth, of Revenge, of Envy, of Boldness, of Travel, of Riches, and of Studies, and Macauley's Essay on the Pilgrim's Progress.

Candidates for the Course in Letters and Science, who prefer, will be admitted on the requirements for the Classical or Literary Course.

[The volumes entitled American Prose and American Poems, are published by Houghton, Mifflin & Co., Boston; the Clarendon Press edition of Shakspeare's plays, or that by Rolfe, is recommended; the other works may be found in a series entitled "English Classics," at ten cents a copy, published by Clark & Maynard, New York.

Skeat's Etymological Dictionary of the English language is recommended as the standard work upon derivation.]

Candidates who pass without conditions will be credited with honors on subjects on which they pass with special excellence; but honors will not be given to a student who enters with a condition.

In Latin the following pronunciation is recommended:

ā as in *father*, ă as in *ăhă*, păpă.

ē as in *they*, ě as in *met*.

ī as in *machine*, ĭ as in *sit*.

ō as in *omen*, ȯ as in *omit*.

ū as in *pool*, ù as in *pull*.

y as French *u*.

In pronouncing diphthongs, the sound of both vowels is preserved:

*ae* as *ay*; *eu* nearly as *u* in *use*.

*au* as *ow* in *power*; *u* in *ua*, *ue*, etc., as *w*.

*oe* as *oi* in *oil*; *ei* as in *rein*.

*c* as in *can*; *s* as in *sin*.

*ch* as *k*; *t* as in *tin*.

*g* as in *gun*; *v* as English *w*.

*j* as *y* in *year*.

Other consonants as in English.

Greek must be written and pronounced with the accents. The pronunciation used in the University is that explained in the preface of Goodwin's Greek Grammar, second edition.

---

#### TIME, PLACE, AND CONDITIONS OF EXAMINATIONS.

In 1883, the first examination will be held in the University buildings at Berkeley, also at Los Angeles, and at Marysville, on Thursday, Friday and Saturday, May 31, June 1 and 2; the second, at Berkeley only, on Wednesday, Thursday and Friday, August 8, 9, and 10. Candidates must be present on all three days.

A fee of five dollars will be charged to all applicants at Los Angeles and Marysville. This fee must be paid before the applicant enters upon the examination.

Candidates will assemble in Berkeley punctually at 8:30 A. M., in the Assembly Room, North Hall, south entry; and at the same hour in Los Angeles and Marysville, at places to be named in the Los Angeles and Marysville papers in seasonable time.

A candidate may take all his examinations either in June or in August, or he may divide them, taking part of the subjects in June, and the remaining subjects in August. If, however, he takes his entire examination in June, and fails to gain admission, he will not be admitted to the August examinations. Also, a candidate who fails to gain admission at the examinations of one year, will not be credited at the examination of any subsequent year with any subject on which he may have passed.

NOTE.—Candidates will not be examined for admission at any other times than those above mentioned, except for special reasons of the most urgent kind. The attention of teachers and students is called to the fact that each examination is limited in time.



## ORDER AND HOURS OF THE EXAMINATIONS,

## FIRST DAY.

8:30. Candidates assemble promptly in Assembly Room at ringing of the bell. Candidates from San Francisco should leave on 7:30 boat.

9:15-11. English (Subject 1).

11-12. Arithmetic.

1-2:30. Algebra.

2:30-3:30. History and Geography (Subject 5).

## SECOND DAY.

## CLASSICALS.

8:45-10:15. Geometry.

10:15-11:45. Cæsar, Latin at sight, and Latin Composition.

1-2:30. Anabasis or Reader, and Greek at sight.

2:30-3:30. Greek and Roman History, and Geography.

## ALL OTHERS.

8:45-10:15. Geometry.

10:15-12. English—Subject 14; first paper.

1-2:30. Natural Philosophy, or Botany, or both.

2:30-3:30. English History.

## THIRD DAY.

## CLASSICALS.

8:45-10:15. Cicero and Virgil.

10:15-11:45. Homer and Greek Composition.

## ALL OTHERS.

8:45-10:15. English—Subject 14; second paper.

10:15-11:45. Chemistry or Physiology, or both.

1-2. Free-hand drawing.

The results of the examinations will be announced at the Recorder's office on the Tuesday morning following the examinations, or sent to candidates not then present. Lessons will be assigned to the Freshman Class on August 14, at the rooms, and during the hour mentioned on the bulletin boards.



The Senior, Junior, and Sophomore Classes will be assigned lessons on August 10, at the times and in the rooms indicated on the bulletin boards.

It is of great importance that students should be present at the first recitations.

### PRELIMINARY EXAMINATIONS,

Any candidate for admission to the University may, at his option, pass the entire examination at one time, as heretofore, or he may pass a preliminary examination on a part of the requirements, and be examined on the remaining subjects the following year; but neither the preliminary examination nor the final completion of the examination may be divided between the June and the August examinations.

Candidates will not be admitted to the preliminary examinations without certificates from their teachers that they are prepared. These certificates should be sent to Recorder William Carey Jones, Berkeley, at least two weeks before the examination.

No certificate of proficiency will be given by the University unless the candidate passes upon at least six of the eight subjects prescribed for the preliminary examinations.

#### CLASSICAL COURSE.

1. ENGLISH. Subject 1 of *Requirements for Admission*, first two books under requirement for 1884; namely, Tom Brown's School Days at Rugby, and Irving's Sketch Book.

2. ARITHMETIC. Subject 2 of *Requirements for Admission*.

3. GEOGRAPHY; and 4. UNITED STATES HISTORY. Subject 5 of *Requirements for Admission*.

5. LATIN. Cæsar's four Orations of Cicero, and Latin Grammar.

6. GREEK. White's First Lessons in Greek (fifty-one exercises) and one book of the Anabasis, or equivalents.

7. GREEK OR ROMAN HISTORY. Described in Subject 10 of *Requirements for Admission*.

8. GEOMETRY. Subject 4 of *Requirements for Admission*.

#### LITERARY COURSE.

Subjects 1, 2, 3, 4, 5, 7 and 8, of Preliminary Examinations for

Classical Course, and one of the subjects under 11 and 12 in Requirements for Admission.

#### COURSE IN LETTERS AND SCIENCE, AND THE COURSES IN SCIENCE.

Subjects 1, 2, 3, 4, and 8, of Preliminary Examinations for Classical Course, History of England (Subject 13 of Requirements for Admission), one subject under 11 and 12 of Requirements for Admission, and Algebra to quadratics.

#### TUITION.

Tuition is free, except to students not residents in the State, who will be charged a matriculation fee of \$25, and \$50 per annum tuition fee, payable \$25 in advance at the beginning of each term.

#### BOARD AND LODGING,

Board and lodging is obtained in Oakland and Berkeley, at from eighteen to thirty dollars a month. Students may room in San Francisco, but from two to three hours a day must be spent in transit, with much risk to the student's eyes if the time is spent in reading or study.

*The latest Bulletin or the latest Register will be sent to any address, on application to the Recorder, Wm. Carey Jones, Berkeley.*

THE LIBRARY OF THE  
FEB 26 1931  
UNIVERSITY OF ILLINOIS.









ANNOUNCEMENT

OF THE

COLLEGE OF DENTISTRY

OF THE

UNIVERSITY OF CALIFORNIA,  
THE LIBRARY OF THE

FOR FEB 26 1931

UNIVERSITY OF ILLINOIS.  
THIRD SESSION,

COMMENCING FEBRUARY 4TH, 1884

N. B.—Those who wish to receive the Announcement are  
requested to forward their Names and  
Addresses to the Dean.

*For Students & Faculty and  
Young Men  
See page 5  
J. M. Dennis*



ANNOUNCEMENT  
OF THE  
COLLEGE OF DENTISTRY

OF THE  
UNIVERSITY OF CALIFORNIA,

FOR ITS

THIRD SESSION,  
UNIVERSITY OF ILLINOIS.

COMMENCING FEBRUARY 1st, 1884,

AND

ENDING OCTOBER 31st, 1884.

---

N. B.—Those who wish to receive the Announcement are  
requested to forward their Names and  
Addresses to the Dean.

---

# CONTENTS.

---

BOARD OF REGENTS	3
FACULTY,	4
ANNOUNCEMENT,	5
PETITION OF MEDICAL DEPARTMENT TO REGENTS,	6
REPORT OF COMMITTEE ON INSTRUCTION AND VISITATION,	8
ADOPTION OF THE REPORT BY THE REGENTS,	9
STATEMENT OF FACULTY,	9
REGULAR TERM,	12
SCHEDULE OF STUDY,	12
REQUIREMENTS FOR ADMISSION,	13
PRELIMINARY EXAMINATIONS	13
REQUIREMENTS FOR GRADUATION,	13
FEES,	15
TEXT BOOKS,	16
DUTIES OF PROFESSOR OF OPERATIVE DENTISTRY,	17
DUTIES OF PROFESSOR OF DENTAL PATHOLOGY AND THERAPEUTICS,	18
DUTIES OF PROFESSOR OF MECHANICAL DENTISTRY,	18
DUTIES OF PROFESSOR OF PHYSIOLOGY,	19
DUTIES OF PROFESSOR OF CHEMISTRY AND MATERIA MEDICA,	19
DUTIES OF PROFESSOR OF ANATOMY,	20
DUTIES OF PROFESSOR OF SURGERY,	20
PRACTICAL ANATOMY,	20
OPERATING ROOMS AND LABORATORY,	21
CLINICAL INSTRUCTION,	21
HOSPITALS,	21
LIBRARY AND MUSEUM,	22
GRADUATES—SESSION OF 1882,	23
MATRICULATES,	24
GRADUATES—SESSION OF 1883,	25
ACADEMIC SENATE,	26
LITERARY AND SCIENTIFIC DEPARTMENTS,	29
DEPARTMENT OF MEDICINE,	30
HASTINGS COLLEGE OF THE LAW,	31
COLLEGE OF PHARMACY,	32

# BOARD OF REGENTS.

## University of California.

### EX-OFFICIO REGENTS.

HIS EXCELLENCY GEORGE STONEMAN,	- . . . .	SACRAMENTO.
Governor, ex-officio President of the Board.		
HIS HONOR JOHN DAGGETT,	- - - - -	LOS ANGELES.
Lieutenant-Governor.		
HON. H. M. LARUE,	- - - - -	SACRAMENTO.
Speaker of the Assembly.		
HON. W. T. WELCKER,	- - - - -	SACRAMENTO.
State Superintendent of Public Instruction.		
HON. H. M. LARUE,	- - - - -	SACRAMENTO.
President of the State Agricultural Society.		
P. B. CORNWALL,	- - - - -	SAN FRANCISCO
President of the Mechanics' Institute.		
W. T. REID, A. M.,	- - - - -	BERKELEY.
President of the University.		

### \* APPOINTED REGENTS.

NAME.	RESIDENCE.	TERM EXPIRES
REV. HORATIO STEBBINS, A. M., D. D.	San Francisco.	1894.
HON. SAMUEL B. MCKEE, - -	Oakland, - -	1884.
HON. JOHN S. HAGER, A. M., LL. D.	San Francisco, - -	1896.
HON. J. WEST MARTIN, - -	Oakland, - -	1888.
HON. JOHN F. SWIFT, - - -	San Francisco, . -	1898.
A. S. HALLIDIE, ESQ., - -	San Francisco, - -	1892.
HON. JOS. W. WINANS, A. M. -	San Francisco, - -	1890.
HON. WM. T. WALLACE, - -	San Francisco, - -	1886.
PROF. GEORGE DAVIDSON, A. M., Ph. D.	San Francisco, - -	1884.
JOHN L. BEARD, A. M., - -	Mission of San Jose, -	1892.
HON. A. L. RHODES, - - -	San Jose, - -	1888.
PROF. WM. ASHBURNER, A. M., -	San Francisco, - -	1896.
HON. T. GUY PHELPS, - - -	Belmont, - -	1896.
I. W. HELMAN, ESQ., - - -	Los Angeles, - -	1886.
GEORGE T. MARYE, JR., LL. B. -	San Francisco, - -	1898.
ARTHUR RODGERS, A. B., Ph. B. -	San Francisco, - -	1890.

\* In order of appointment.



# UNIVERSITY OF CALIFORNIA.

## Dental Department.

CORNER OF STOCKTON AND FRANCISCO STREETS.

---

### FACULTY.

WILLIAM T. REID, A. M.

President of University, and ex-officio President of the Faculty.

A. F. McLAIN, M. D., D. D. S.,

Professor of Pathology and Therapeutics.

S. W. DENNIS, M. D., D. D. S.,

Professor of Operative Dentistry, Dental Pathology and Histology.

C. L. GODDARD, A. M., D. D. S.,

Professor of Mechanical Dentistry.

M. W. FISH, M. D.,

Professor of Physiology.

W. E. TAYLOR, M. D.,

Professor of the Principles and Practice of Surgery.

A. L. LENGFELD, M. D.

Professor of Chemistry and Materia Medica.

WILLIAM B. LEWITT, M. D.,

Professor of Anatomy.

### DEMONSTRATORS.

M. J. SULLIVAN, D. D. S.,

Demonstrator of Operative Dentistry and Instructor in Salivary Analysis.

---

Assistant Demonstrator of Operative Dentistry.

E. O. COCHRANE, D. D. S.,

Demonstrator of Mechanical Dentistry and Instructor in Continuous Gum Work.

---

Assistant Demonstrator of Mechanical Dentistry.

WILLIAM B. LEWITT, M. D.,

Demonstrator of Anatomy.

---

### \* CLINICAL INSTRUCTORS.

F. W. BLISS, D. D. S.,  
H. C. DAVIS, L. D. S.,  
L. L. DUNBAR, D. D. S.,  
R. W. HENDERSON,  
J. H. HATCH, D. D. S.,  
W. B. KINGSBURY,  
H. E. KNOX, D. D. S.,

GEO. OTIS LAWRENCE, D. M. D.,  
THOS. MORFEW, D. D. S.,  
H. J. PLOMTEAUX, D. D. S.,  
W. E. PRICE, D. D. S.,  
C. W. RICHARD, D. D. S.,  
W. H. STANLEY, D. D. S.

S. W. DENNIS, M. D., Dean of the Faculty,  
530 Sutter Street, San Francisco.

---

\* Arranged alphabetically.

# DENTAL DEPARTMENT.

---

## ANNOUNCEMENT.

With this announcement the Dental Department of the University of California enters upon the third year of its existence. From the very beginning it has succeeded far beyond the fond hopes of its founders, and the most sanguine expectations of its friends. The number and character of its students have exceeded the anticipations of *both* founders and friends. While we feel fully justified in saying that from the organization of the Dental Department of the University of California the facilities and opportunities for securing a dental education in it have been equal to any other similar institution of learning in the country, we are equally aware that the Profession and the People will, justly, have more confidence in the scholarship and capabilities of graduates of a dental college that requires two terms of nine months each, than they would have in those of graduates from a college that requires two terms of but four or five months' attendance at most, with a preliminary term of a month or two, the attendance upon which is optional with the student. This plan of a nine-months' term gives longer time for study and more time for practical instruction, and less *crowding* of both. We are glad to be able to say that the more intelligent students, and those who are actuated by the best motives, favor the step in advance. It is an additional tax upon the time of both the student and the Faculty, without any increased tuition for the former or greater pecuniary reward for the latter: therefore the motive for the change can be one, only, of professional and public interest, which we expect will meet

with the commendation of both the Profession and the Public, and which must be our chief reward. The Faculty desires again to thank those who have aided the College by words of encouragement and substantial assistance, and to renew the hope that the general interest will continue to increase so that they may feel that their efforts to serve the Profession and the People shall not prove unavailing.

For the benefit of those who may not have seen former announcements, and who may be interested in the origin, character, and dignity of the Dental Department of the University of California, we again submit an extract from the records of the proceedings of the Board of Regents of the University of California, that they may understand whence came the first effectual step towards the founding of the only dental college on the Pacific Coast.

## MEDICAL DEPARTMENT, UNIVERSITY OF CALIFORNIA.

SAN FRANCISCO, CAL., May 28, 1881.

*To the Honorable the Board of Regents of the University of California:*

GENTLEMEN:—We, the undersigned, members of the Faculty of the Medical Department of the University of California, would respectfully recommend that a Dental Department be established in connection with the Medical Department of the University of California, and for the following reasons, viz:

1st.—That Dentistry is an important collateral branch of Medical Science.

2d.—That Dental education is necessary for the public good.

3d.—It can be most thoroughly acquired in connection with the Medical Department, and under the management of competent men, actively engaged in the dental profession.

4th.—That the Universities of Harvard, Pennsylvania, Michigan, and Vanderbilt have instituted and organized departments that are known as Dental Departments, which are now in active operation.

5th.—That if your honorable body deem it expedient, and will organize a Dental Department in the University of California, and in connection with the Medical Department of said University, we can and will give said Dental Department lecture and clinic room free of expense.

6th.—We are aware that a Dental Department was partially organized some time since, but under such circumstances that no progress has been made towards perfecting the organization, and starting it into operation.

We think, if you will organize a new Dental Department, that, with the facilities afforded by the Medical Department, it can be put in operation immediately.

We would further state that we endorse the appointments you have already made in the Dental Department.

Very Respectfully,

C. M. BATES, M. D.,  
*Professor of Clinical Medicine.*

JAMES SIMPSON, M. D.,  
*Professor of Materia Medica and Therapeutics.*

R. A. MCLEAN, M. D.,  
*Professor of Clinical and Operative Surgery.*

ALFRED W. PERRY, M. D.,  
*Professor of Medical Chemistry.*

W. LEWITT, M. D.,  
*Professor of Anatomy.*

W. F. McNUTT, M. D., F. R. C. S.,  
*Professor of Principles and Practice of Medicine.*

HENRY FERRER, M. D.,  
*Professor of Pathology and Microscopy.*

W. E. TAYLOR, M. D.,  
*Professor of Principles and Practice of Surgery.*

W. H. MAYS, M. D.  
*Lecturer on Obstetrics and Gynecology.*

F. W. HATCH, A. M., M. D.,  
*Professor of Hygiene.*

The foregoing petition was referred by the Board of Regents to the Committee of Instruction and Visitation, who reported August the 1st, 1881, as follows:

“In the matter of the petition of the Faculty of the Medical Department of the University for the establishment of a Dental Department, the committee beg to report their approval of the object of the petition, and recommend that the whole matter be referred to a committee of the Board, to confer with the Dean of the Medical Faculty, and report a plan of organization of said Department.

Rev. HORATIO STEBBINS, D. D.

Prof. GEORGE DAVIDSON,

Prof. WILLIAM ASHBURNER,

Hon. B. B. REDDING,

Hon. FRED. M. CAMPBELL,

*Committee.”*

September 7th, 1881.

The following report of the Committee of Instruction and Visitation was unanimously adopted by the Board of Regents:

FIRST. That a Dental Department be established in connection with the Medical Department of the University, and the same be organized with:—

1st.—A Professor of the Principles and Practice of Operative Dentistry.

2nd.—A Professor of Dental Pathology and Therapeutics.

3rd.—A Professor of Dental Art and Mechanism.

4th.—A Professor of Physiology.

5th.—A Professor of Chemistry.

6th.—A Professor of Anatomy.

7th.—A Professor of Surgery.



That S. W. Dennis, M. D., D. D. S., be appointed Professor of the Principles and Practice of Operative Dentistry. [Re-appointed.]

That A. F. McLain, M. D., D. D. S., be appointed Professor of Dental Pathology and Therapeutics. [Re-appointed.]

That C. L. Goddard, A. M., D. D. S., be appointed Professor of Dental Art and Mechanism.

That M. W. Fish, M. D., be appointed Professor of Physiology.

That A. W. Perry, M. D., be appointed Professor of Chemistry.

That William Lewitt, M. D., be appointed Professor of Anatomy; and

That W. E. Taylor, M. D., be appointed Professor of Surgery.

Attest:

J. H. C. BONTE,  
Secretary of the Board of Regents.

---

In addition, we would state that the Board of Regents of the University of California, in conjunction with the Medical Faculty thereof, has instituted and organized this department as an integral part of the State University, and for the following reasons, namely:

FIRST. In deference to the opinion so often expressed by the Profession and the People, individually and collectively, in favor of a Dental College, as a much desired object and public necessity.

SECOND. From a desire to comply with the public wants and requirements by enlarging the opportunities and facilities for both general and special culture in the University of California, and upon the Pacific Coast.

THIRD. Recognizing the importance and beneficence which the art and science of dental surgery, as a collateral branch of medicine, bears upon the health and comfort of the human family.

FOURTH. Appreciating the necessity for the proper training and instruction of those who propose to assume the important duties and responsibilities of this profession.

FIFTH. Recognizing the great extent of territory embraced in the Pacific Slope, and knowing the wide belt of country without educational facilities, connecting the Pacific States and Territories with the Atlantic States.

SIXTH. From a desire to relieve those who wish to acquire a dental education from the anxieties, cares, and great expense incident to so long a journey and stay as were necessary to acquire a thorough professional training, or knowledge sufficient to command public confidence, and meet their requirements.

We would further state, that the great progress of Dentistry has given it rank among the liberal professions, and that rank and progress can be maintained in the future only by liberal studies.

In accordance with the petition already submitted, the Dental Department of the University of California will be accommodated in the Medical Hall of the University, ample provision having been made for lecture and clinic room, through the generous offer of the Medical Faculty.

The lecture rooms are large, well-ventilated, and lighted. There will be ample room for all clinical purposes, and it is expected that there will be an abundance of clinical material for practical instruction in all the principles taught in the College.

All instruction from the medical Chairs, utilized in the Dental Department, will be given to students in Dentistry conjointly with that given to the medical students, and the Dental instruction will be separate, but all under the same roof.

We submit the following extract from the announcement of the Medical Department of the University of California, for the consideration of those who contemplate taking a dental course :

"While the several other colleges of the State University are clustered at Berkeley, its Medical Department is, for convenience of clinical study, conducted wholly, or almost wholly, in San Francisco. The advantages for demonstrative teaching presented by a seaport city of nearly 300,000 inhabitants will be recognized as almost unbounded.

"The college building known as Toland Hall, a massive brick and stone edifice, is one of the most complete and stately medical colleges in the country. It is situated on North Beach, overlooking the bay, the locality being one where the health and industrious habits of the student are promoted by quietness and pure air.

"The main lecture hall of the college is capable of seating 500 persons. The clinical amphitheater is about equally capacious.

"The museum contains an extensive collection of specimens and preparations.

"The dissecting room is fitted up with all the modern improvements.

"The laboratory is replete with all chemicals and apparatus necessary for practical teaching.

"A suite of apartments in the building is set apart for the dispensary clinics."

There are two large and convenient dental operating rooms, with windows of extra width and height, thus giving light that is unsurpassed. They are furnished with both Morrison and Archer chairs and handsome operating stands, which will be assigned to students in the order of their matriculation. The mechanical laboratory is commodious, and furnished with benches, lathes, furnaces, and all other requisites for thorough work. Each student is required to furnish his own instruments and tools, and will be provided with a separate drawer in which they can be securely locked. Those who have

operating instruments and laboratory tools and appliances should bring them; those who have not, are advised to defer purchasing till they arrive. Lists will be furnished when desired. During the hours devoted to operative and mechanical dentistry, competent demonstrators will be present to assign patients to students, and superintend and assist them in their operations.

Both the Medical and Dental Departments of the University of California, unlike corresponding Colleges of the Eastern States, have their regular term in the Spring and Summer.

Term commences February 1st, 1884, and closes October 31st, 1884.

### SCHEDULE OF STUDY.

#### ORDER OF LECTURES AND CLINICS.

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
	Operative Dental Clinic From 9 A. M. to 12 M.	Operative Dental Clinic From 9 A. M. to 12 M.	Operative Dental Clinic 9 to 11 A. M.	Operative Dental Clinic From 9 A. M. to 12 M.	Operative Dental Clinic 9 to 11 A. M.	Hospital, Medical and Surgical Clinics, From 9 A. M. to 12 M.
11 A. M.			TAYLOR, Surgery.		TAYLOR, Surgery.	
12 M. to 2 P. M.	—MECHANICAL DENTAL CLINIC—					
2 P. M.		LENGFELD, Chemistry.		LENGFELD, Chemistry.		HISTOLOGICAL LABORATORY.
3 P. M.	DENNIS, Operative Dentistry.	FISH, Physiology.	DENNIS, Operative Dentistry.	FISH, Physiology.	CLINICAL INSTRUCTORS From 2 P. M. to 5 P. M.	
4 P. M.	GODDARD, Mechanical Dentistry.	LEWITT, Anatomy.	GODDARD, Mechanical Dentistry.	LEWITT, Anatomy.		
5 P. M.	McLAIN, Pathology and Therapeutics.	Dissecting.	McLAIN, Pathology and Therapeutics.	Dissecting.		

Students who prefer may attend Hospital Clinics Tuesdays and Thursdays instead of Dental Clinics.

## REQUIREMENTS FOR ADMISSION.

Every candidate for admission must be 18 years of age, and is required to present to the Faculty satisfactory evidence of a good moral character. All matriculates before admission will be required to write a brief essay, not to exceed one page of foolscap in length, which will serve as a test of their qualifications in orthography and grammar; and also undergo an examination in the elementary principles of physics and mathematics.

No matriculation examination will be required of candidates who have received a Collegiate Degree, or who have passed the examination for admission to, or are graduates of the College of Letters or of Science of the University of California, or who have passed the matriculation examination of any recognized college, or who present a teacher's certificate covering the required subjects from a recognized Normal or High School.

He shall subscribe to Article II, Section 3, of the Code of Ethics of the American Dental Association.\*

At the end of the first year's study, or the beginning of the second, there will be a preliminary examination in Anatomy, Physiology, Chemistry, and Mechanical Dentistry.

---

## REQUIREMENTS FOR GRADUATION.†

The candidate for the degree of Doctor of Dental Surgery must have attained the age of twenty-one years, and be of good moral character.

He shall have passed a satisfactory examination, both oral and written.

---

\* N. B. The object of this requirement is to prevent students from committing unprofessional acts during their Collegiate Course.

† The Faculty hereby gives notice that after January 1st, 1886, three years' study, including attendance upon two courses of lectures, will be required for graduation.



He shall have studied Dentistry two years, including the time spent in attending lectures.

He shall have attended two full courses in the Dental Department of the University of California, or one year in some other reputable Dental College, and the second or last in this college.

He shall again subscribe to Article II, Section 3d, of the Code of Ethics of the American Dental Association.

He *may* write an original thesis upon some subject pertaining to Dentistry or Medicine.

The candidate is required to dissect at least two parts. He must treat thoroughly some patient requiring all the usual dental operations, and bring such patient before the Professors of Operative Dentistry, and Pathology and Therapeutics. He must also take up at least one artificial case, and, after it is completed, bring his patient before the Professor of Mechanical Dentistry at least thirty days before the close of the term. He must also prepare a specimen case, to be deposited in the college collection, and present the same to the Professor of Mechanical Dentistry before the 1st of October. The operating must be performed, and the work on the artificial cases done, at the college building.

Graduates in Medicine may apply for the Degree of Doctor of Dental Surgery upon attending one full year in the Dental Department of the University of California.

Dentists of seven years' practice may apply for the Degree of Doctor of Dental Surgery after having attended one full course in the University of California.

After these requirements have been complied with, upon the recommendation of the Faculty, and approval of the Board of Regents, the candidate shall receive the Degree of Doctor of Dental Surgery.

Students who have had no office instruction before attending lec-

tures are advised to attend three courses. No fees will be required for the third course except that of the Demonstrator of Anatomy.

---

**FEES.**

The Matriculation Fee will be (paid once),	-	-	-	\$5.00
Tuition,	-	-	-	100.00
Demonstrators' Fees,	-	-	-	30.00
Diploma Fee,	-	-	-	30.00

# TEXT BOOKS.

---

ANATOMY—*Gray.*

DENTAL ANATOMY—*Tomes.*

PHYSIOLOGY—*Dalton or Flint.*

HISTOLOGY—*Stricker, Frey, Beal or Wythe.*

PATHOLOGY—*Wagner.*

DENTAL PATHOLOGY—*Wedl.*

ORAL SURGERY—*Garretson.*

OPERATIVE DENTISTRY—*Taft or Harris.*

MECHANICAL DENTISTRY—*Richardson or Harris.*

ORAL DEFORMITIES—*Kingsley.*

DENTAL METALLURGY—*Essig.*

MICROSCOPICAL MORPHOLOGY—*Heitzmann.*

CHEMISTRY—*Atfield.*

THERAPEUTICS—*Wood, Biddle, or Bartholow.*

MEDICAL DICTIONARY—*Dungleson.*

DENTAL DICTIONARY—*Harris.*

MATERIA MEDICA—*U. S. Pharmacopœia.*

DENTAL MATERIA MEDICA AND THERAPEUTICS—*Stocken's.*

## OUTLINE OF THE COURSE OF STUDY.

---

### **PRINCIPLES AND PRACTICE OF OPERATIVE DENTISTRY DENTAL HISTOLOGY AND DENTAL PATHOLOGY.**

It will be the aim of the incumbent of this Chair, as it is the object of it, to give a comprehensive course upon all of the principles underlying this branch of Dental Science. The means and methods at present used in practice will be fully considered; also, a comparison will be made of the present and former systems of operating.

The intra and extra uterine development of the teeth will be fully dwelt upon, from the inception to the shedding of the temporary or deciduous set, on to the full and complete eruption of the permanent set and their final loss.

The topographical and general, as well as the minute or histological, anatomy of the teeth will be fully illustrated.

The Principles of the Microscope, and the application of them to the study of the laws of life, health, and disease will demand a share of his attention. A portion of his time will be devoted to Dental Pathology.

The Principles and Practice of Operative Dentistry embrace so much, that the Lecturer from this Chair may necessarily encroach upon the field of several others; but should this be the case, it will be only the outgrowth of a desire to make the course as instructive, and interesting, and comprehensive as possible.

## PATHOLOGY AND THERAPEUTICS.

The lectures delivered by the incumbent of this Chair will embrace a full and comprehensive course on the following topics:

1. GENERAL PATHOLOGY—In which will be discussed those general aspects of disease with which it is necessary to be acquainted, in order to be able to understand the nature of any departure from health; causes of disease, symptoms, diagnosis, prognosis, temperaments, pathology of anæsthetics, irritation, determination, congestion, inflammation and its terminations :—effusion, suppuration, ulceration, gangrene, sloughing, morbid growths, etc.

2. SPECIAL PATHOLOGY—In which a critical examination will be made into the special causes of dental decay; dental hygiene and prophylaxis; diseases of the enamel—of the dentine; diseases of the dentinal pulp—together with the causes of alveolar abscess—its stages and results; exostosis of the roots and alveoli; necrosis and exfoliation; diseases of the antrum; tumors, benign and malignant; diseases of the buccal mucous membranes.

Neuralgia and other nervous affections will receive such attention as their importance may demand, and besides there will be presented such other special diseases as may in any degree be of interest to the Dental Practitioner, such as scurvy, scrofula, rachitis, and other diseases of the bones.

3. GENERAL PRINCIPLES OF THERAPEUTICS—Under which head the general application of medicines will be noticed—their action, constitutional and topical.

4. SPECIAL THERAPEUTICS—In connection with Dental Materia Medica, as incidentally related thereto.

---

## MECHANICAL DENTISTRY.

The instruction in Mechanical Dentistry will embrace everything necessary to enable the dentist successfully to supply substitutes for lost dental organs.



Special reference will be made to the principles involved in the restoration of the natural functions of the teeth, namely: mastication, enunciation, and expression of the features, keeping in view always the health and the future usefulness of the living parts.

The various mechanical means employed in correcting irregularities will be explained and illustrated.

In the Laboratory ample opportunities will be given to each student to perform, under the supervision of practical Demonstrators, every operation in Mechanical Dentistry.

Special instruction will be given in refining and alloying gold and in continuous Gum work.

---

### **PHYSIOLOGY.**

The Lectures in this department, by Professor Fish, embrace a consideration of both General and Special Physiology, including all that has been developed up to the present time, and are illustrated by the largest and most complete series of colored drawings in the United States, prepared exclusively for these lectures: besides which, the vast collection of preparations and drawings of the Scientific Department at Berkeley are at the command of the Professor. Vivisections are practiced when necessary to demonstrate principles, and the microscope is freely used for illustrating important facts and principles.

---

### **CHEMISTRY AND MATERIA MEDICA.**

Professor Lengfeld will spare no effort to make the course in Chemistry and Materia Medica thoroughly practical and instructive. All important principles are illustrated by means of suitable philosophical, chemical, and other apparatus, and facts and theories are presented in a clear and comprehensive manner.

## **ANATOMY.**

Professor W. B. Lewitt's lectures on anatomy are illustrated fully by the cadaver, and by both wet and dry preparations, models, manikins, and drawings; and include a course on general, special, and topographical anatomy, thus preparing the student for active surgical practice, as well as giving him a thorough knowledge of the relation of organs. Before each lecture a short examination is held on the subject of the preceding lecture.

---

## **SURGERY.**

Professor Taylor delivers two lectures each week on the Art and Science of Surgery. The more recent views on the management of surgical conditions, and the appliances devised for their relief, are particularly dwelt upon, and illustrated with drawings and models when necessary. This course will include a series of lectures upon Operative Surgery, with demonstrations on the cadaver. The student will be drilled in the manipulation of instruments used in the various operations.

In addition to his usual course of lectures on surgery, he will pay particular attention to surgical diseases and injuries of the head, face, jaws, and mouth.

---

## **PRACTICAL ANATOMY.**

The dissecting-room of the University is spacious, well ventilated, well lighted from above, and provided with every convenience. It is open throughout the year under the superintendence of the Professor of Anatomy and the Demonstrator of Anatomy. A full supply of material is always procurable at small cost, and is thoroughly preserved from decomposition. When the dissections are conducted in a diligent manner, the student is furnished by the Demonstrator with certificates stating the amount and part dissected. The Dissecting

Ticket (\$10.00) is good for the whole year, from January 1st to December 31st.

---

### **OPERATING ROOMS AND LABORATORY.**

The Operating Rooms and Laboratory are open during the entire course, when ample opportunities will be afforded the student to pursue the practical part of his studies under the guidance and supervision of competent demonstrators. The supply of patients during the first two years was abundant, and there is every reason to expect a larger supply in the future.

---

### **CLINICAL INSTRUCTION.**

During the course, Friday afternoons will be devoted to clinical lectures and operations by the Professors and Clinical Instructors.

---

### **HOSPITALS.**

All students in Dentistry will have all the facilities and opportunities enjoyed by the medical students in hospital practice and observation. They will have the freedom, as above represented, of the City and County Hospital, City Receiving Hospital, and San Francisco Female Hospital.

Medical and Surgical clinical lectures are given by the Professors of the Medical Department of the City and County Hospital, Tuesdays, Thursdays, and Saturdays, from 9 to 11 A. M.

For further particulars on this subject, see Medical Department announcement.

**LIBRARY AND MUSEUM.**

A nucleus has been formed from which it is hoped a large library and museum will grow. All members and friends of the Profession are invited to contribute books, pamphlets and journals, charts, anatomical, physiological and pathological specimens, casts of deformities and irregulatities of the teeth and associate parts, or anything that will be useful or instructive.

These contributions will be placed in the library and museum, and marked with the name of the donor, if desired.

S. W. DENNIS, M. D., Dean of the Faculty,

530 Sutter St., San Francisco, Cal.

N. B.—BOARDING. The expense of living in the City of San Francisco is not great. Good board, with room rent, may now be procured at the low rate of \$5 per week, at a convenient distance from the College building. Students from a distance may learn the addresses of these boarding houses, and other information, by calling on the Dean of the Faculty.

## Graduates.

---

### SESSION OF 1882.

The first Commencement Exercises were held at B'nai B'rith Hall, San Francisco, Cal., November 8th, 1882, at 8 o'clock, P. M.

Addresses were delivered by Gov. Geo. C. Perkins and Rev. Horatio Stebbins, D. D. The valedictory for the Faculty was delivered by the Dean, Prof. S. W. Dennis, M. D., D. D. S., and that for the graduating class by H. J. Plomteaux.

The degree of Doctor of Dental Surgery was conferred by W. T. Reid, A. M., President of the University, upon the following candidates:

NAME.	STATE.	YEARS OF PRACTICE.	THESIS.
THOMAS WATSON HALL...	California..	7..	Impressions of the mouth.
CHAS. WESLEY HIBBARD.....	California..	8..	Deterioration of Tooth Structure.
THOMAS MORFFEW.....	California..	12..	Neuralgia.
HENRY JOHN PLOMTEAUX.....	California..	22..	Some of the requirements of a Dental College.
CHAS. WESLEY RICHARDS.....	California..	10..	Abscess.
WILLIAM HARRY STANLEY.....	California..	16..	The Dentist in his Office.
GUSTAV WM. SICHEL, M. D.....	California..	5..	Clinics.
AUGUST VAN CRUMBRUGGHE....	California..	7..	Caries.



# Matriculates.

## SESSION 1883.

NAME.	STATE.	PRECEPTOR.
BLOOD, J. N.	California	H. J. Plomteaux, D. D. S.
BURCH, MARIA A.	California	Prof. S. W. Dennis
BOTSFORD, GEO.	Canada	University of California.
BOXTON, CHAS.	California	Drs Sichel and Richards.
BLISS, FRED A.	California	F. W. Bliss, D. D. S.
BERNARD, CH.	Paris, France.	I. Sangar, D. D. S.
CARRANZA, VICT. A.	Costa Rica, Central America,	J. C. Whinnery, D. D. S.
CHITTENDEN, GEO. A.	California	F. W. Bliss, D. D. S.
COCHRANE, E. O.	California	J. W. Allen.
COOL, G. W.	California	R. H. Cool.
COOL, RUSSELL H.	California	Dr. Geo. W. Cool.
COURET, H. L.	La Barranca, Mexico.	Prof. S. W. Dennis.
DECKER, JOHN HENRY.	California	Chas. W. Decker.
DUNN, JOHN M.	California	University of California.
DRUCKER, GEO. J.	California	Dr. J. S. Knowlton.
EDWARDS, BENJ. FRANK.	California	University of California.
EDWARDS, J. W.	California	E. C. French.
GABBS, MILTON F.	California	Dr. E. S. Gabbs.
GLEAVES, ARCHIBALD D.	California	Dr. Averill.
HENDERSON, W. R.	California	R. W. Henderson.
LAUDERDALE, J. A.	California	W. F. Gunckel.
LOOMIS, IRA S.	Oakland.	Dr. H. Dobson and the University of Michigan.
LUBBOCK, WALTER C.	California	University of California.
LIGHTBODY, H. L.	California	H. E. Knox, D. D. S.
MARTIN, W. R.	Minn.	R. S. Morgan, D. D. S.
NICHOL, ROBERT.	Scotland.	University of California.
PRICE, W. E.	California	J. S. Knowlton.
PANCOAST, FRANKLIN.	California	Ch. W. Decker.
RIETZKE, G. C.	Prussia.	University of California.
RODOLPH, CHAS. T.	California	J. J. Hatch, D. D. S.
SIMMONS, W. H.	California	University of California.
TWIST, JOSEPH F.	California	University of California.
WELDON, E. Joseph.	California	Dr. J. H. Weldon.

## Graduates.

---

### SESSION 1883.

The second Commencement exercises were held in connection with those of the Medical Department of the University at the Baldwin Theater, Tuesday Evening, November 13, 1883, at 8 o'clock P. M.

The Valedictory Address on behalf of the Medical Department was delivered by Prof. R. B. Kane, M. D., M. R. C. S. I.

The Valedictory Address on behalf of the Dental Department was delivered by Prof. C. L. Goddard, A. M., D. D. S.

The Valedictory Address on behalf of the Graduating Class of the Dental Department was delivered by W. E. Price.

An address on behalf of the Alumni Association of the Dental Department was delivered by G. W. Sichel, M. D., D. D. S.

The Degree of Doctor of Dental Surgery was conferred by W. T. Reid, A. M., President of the University, upon the following candidates:

Name.	State.	Duration of Study,
JOHN NELSON BLOOD .....	Cal.....	Two Courses.
CHAS. BOXTON .....	Cal.....	Two Courses.
MARIA ANGELINA BURCH.....	Cal.....	Two Courses.
EDWIN OVERTON COCHRANE....	Cal....	17 years practice and One Course.
RUSSELL HOPKINS COOL .....	Cal.....	8 years practice and One Course.
MILTON FRANCIS GABBS.....	Cal.....	Two Courses.
WILLIAM EDMUND PRICE.....	Cal.....	Two Courses.

(Written Examination instead of Thesis required.)

## Academic Senate.

---

NOTE.—Arranged alphabetically in each Division of Professors, Instructors, and Lecturers.

---

WILLIAM T. REID, A. M.,  
President.

WILLIAM ASHBURNER,  
Honorary Professor of Mining.

HERMANN BEHR, M. D.,  
Professor of Botany (College of Pharmacy).

R. BEVERLY COLE, A. M., M. D., M. R. C. S., Eng.,  
Professor of Obstetrics and Gynecology.

GEORGE DAVIDSON, A. M., Ph. D.,  
Honorary Professor of Geodesy and Astronomy.

S. W. DENNIS, M. D., D. D. S.,  
Professor of Operative Dentistry, Dental Pathology and Histology (Dean of Dental Faculty).

STEPHEN J. FIELD, LL. D.,  
Honorary Professor of Law.

M. W. FISH, M. D.,  
Professor of Physiology and Microscopy.

C. L. GODDARD, A. M., D. D. S.,  
Professor of Mechanical Dentistry.

F. W. HATCH, A. M., M. D.,  
Professor of Hygiene.

S. CLINTON HASTINGS, LL. D.,  
Professor of Comparative Jurisprudence (Dean of Law Faculty).

FREDERICK G. HESSE,  
Professor of Industrial Mechanics.

EUGENE W. HILGARD, Ph. D.,  
Professor of Agriculture, Agricultural Chemistry, General and Economic Botany.

MARTIN KELLOGG, A. M.,  
Dean, and Professor of the Latin Language and Literature.

F. B. KANE, M. D., M. R. C. S. I.  
Professor of Clinical Medicine.

JOHN LECONTE, M. D. LL. D.,

Professor of Physics.

JOSEPH LECONTE, M. D., LL. D.,

Professor of Geology and Natural History.

A. L. LENGFELD, M. D.,

Professor of Materia Medica and Medical Chemistry.

WILLIAM B. LEWITT, M. D.,

Professor of Anatomy.

A. F. McLAIN, M. D., D. D. S.,

Professor of Pathology and Therapeutics.

ROBERT A. MCLEAN, M. D.,

Professor of Clinical and Operative Surgery (Dean of Medical Faculty).

W. F. McNUTT, M. D., M. R. C. S., EDIN., ETC.,

Professor of Principles and Practice of Medicine.

BERNARD MOSES, PH. D.,

Professor of History and Political Economy.

JOHN NORTON POMEROY, LL. D.,

Professor of Municipal Law.

WILLARD B. RISING, PH. D.,

Professor of Chemistry.

E. W. RUNYON, PH. G.,

Professor of Pharmacy.

W. M. SEARBY, PH. G.,

Professor of Materia Medica (Dean Pharmaceutical Faculty).

G. A. SHURTLEFF, M. D.

Professor of Mental Diseases and Medical Jurisprudence.

EDWARD R. SILL, A. M.,

Professor of the English Language and Literature.

FRANK SOULÉ, JR.,

(United States Military Academy.)

Professor of Civil Engineering and Astronomy.

W. E. TAYLOR, M. D.,

Professor of the Principles and Practice of Surgery.

F. H. TERRILL, A. M., M. D.,

Professor of Therapeutics.

WILLIAM T. WENZELL, M. D.

Professor of Chemistry (College of Pharmacy).

A. M. WILDER, M. D.

Professor of Ophthalmology and Otology.

---

Mills Professor of Mental and Moral Philosophy and Civil Polity.

---

Agassiz Professor of the Oriental Languages and Literatures.

OLIVER P. EVANS,  
Assistant Professor of Municipal Law.

JOHN W. BICE, PH. B.,  
Instructor in Civil Engineering.

ROSS E. BROWNE,  
Instructor in Mechanical and other Branches of Instrumental Drawing.

SAMUEL B. CHRISTY, PH. B.,  
Instructor in Mining and Metallurgy.

JOHN B. CLARKE, PH. B.,  
Assistant Instructor in Mathematics.

GEORGE C. EDWARDS, PH. B.,  
Instructor in Mathematics, and Colonel Commanding Battalion of University Cadets.

A. WENDELL JACKSON, JR., PH. B.,  
Instructor in Mineralogy, Petrography, and Economic Geology.

HENRY B. JONES,  
Instructor in French.

WM. CAREY JONES, A. M.,  
Instructor in Latin.

EDMUND C. O'NEILL, PH. B.,  
Assistant Instructor in Chemistry.

ALBIN PUTZKER,  
Instructor in German.

JOSEPH C. ROWELL, A. B.,  
Librarian.

EDMUND H. SEARS, A. B.,  
Instructor in Latin and Greek.

F. SLATE, JR.,  
Superintendent of Physical Laboratory, and Instructor in Physics and Mechanics.

JOHN M. STILLMAN, PH. B.,  
Instructor in Chemistry.

BENJ. R. SWAN, M. D.,  
Professor of the Diseases of Children.

CHARLES H. DWINELLE, PH. B.,  
Lecturer on Practical Agriculture.

W. H. MAYS, M. D.  
Lecturer in Obstetrics, Gynecology, and Clinical Midwifery.

WILLIAM B. LEWITT, M. D.,  
Demonstrator of Anatomy.



# Literary and Scientific (Undergraduate) Departments

OF THE

## UNIVERSITY OF CALIFORNIA

INCLUDING

- |   |                            |
|---|----------------------------|
| 1. COLLEGE OF LETTERS.<br>(CLASSICAL COURSE.) | 4. COLLEGE OF MINING.      |
| 2. COLLEGE OF AGRICULTURE.                    | 5. COLLEGE OF ENGINEERING. |
| 3. COLLEGE OF MECHANICS.                      | 6. COLLEGE OF CHEMISTRY.   |
|   | 7. LITERARY COURSE.        |
| 8. COURSE IN LETTERS AND SCIENCE.             |                            |

### FACULTIES OF COLLEGES OF SCIENCE AND LETTERS.

WILLIAM T. REID, A. M., President of the University.  
 WILLIAM ASHBURNER, Honorary President of Mining.  
 GEO. WOODBURY BUNNELL, A. M., Professor of the Greek Language and Literature.  
 ALBERT S. COOK, PH. D., Professor of the English Language and Literature.  
 GEO. DAVIDSON, A. M., Honorary Professor of Geodesy and Astronomy.  
 STEPHEN J. FIELD, LL. D., Honorary Professor of Law.  
 FREDERICK G. HESSE, Professor of Industrial Mechanics.  
 EUGENE W. HILGARD, PH. D., Professor of Agriculture, Agricultural Chemistry, General and Economic Botany.  
 MARTIN KELLOGG, A. M., Dean, and Professor of the Latin Language and Literature.  
 JOHN LECONTE, M. D., LL. D., Professor of Physics.  
 JOSEPH LECONTE, M. D., L. L. D., Professor of Geology and Natural History.  
 BERNARD MOSES, PH. D., Professor of History and Political Economy.  
 WILLARD B. RISING, PH. D., Professor of Chemistry.  
 FRANK SOULE, JR., (U. S. Military Academy), Professor of Civil Engineering and Astronomy.  
 IRVING STRINGHAM, PH. D., Professor of Mathematics.  
 DAVID BARCROFT, PH. B., Instructor in Engineering.  
 ROSS E. BROWNE, Instructor in Mechanical and other Branches of Instrumental Drawing.  
 C. B. BRADLEY, A. M., Instructor in English.  
 SAMUEL B. CHRISTY, PH. B., Instructor in Mining and Metallurgy.  
 JOHN B. CLARKE, PH. B., Instructor in Mathematics.  
 CHARLES H. DWINELLE, PH. B., Lecturer on Practical Agriculture.  
 GEORGE C. EDWARDS, PH. B., Instructor in Mathematics.  
 A. WENDELL JACKSON, JR., PH. B., Instructor in Mineralogy.  
 HENRY B. JONES, Assistant Instructor in French.  
 WM. CAREY JONES, A. M., Recorder, and Instructor in United States History and Constitutional Law.  
 EDMUND C. O'NEIL, PH. B., Instructor in Chemistry.  
 ALBIN PUTZKER, Instructor in German.  
 JOSEPH C. ROWELL, A. B., Librarian.  
 E. H. SEARS, A. B., Instructor in Latin and Greek.  
 F. SLATE, JR., Superintendent of the Physical Laboratory.  
 MYER E. JAFFA, PH. B., Assistant in Agricultural Chemistry.  
 FREDERICK W. MORSE, PH. B., Assistant in Viticultural Laboratory.  
 J. J. RIVERS, Curator of the Museum.

For particulars, address MARTIN KELLOGG, A. M., Dean, Berkeley, Cal.

# Department of Medicine.

SESSION 1884.

## FACULTY.

W. T. REID, A. M., President of the University.

R. BEVERLY COLE, A. M., M. D., M. R. C. S., Eng., Professor of Obstetrics and Gynecology.

M. W. FISH, M. D., Professor of Physiology and Microscopy.

F. W. HATCH, A. M., M. D., Professor of Hygiene.

G. A. SHURTLEFF, M. D., Professor of Mental Diseases and Medical Jurisprudence.

W. F. McNUTT, M. D., M. R. C. S., Edin., etc., Professor of Principles and Practice of Medicine.

ROBERT A. McLEAN, M. D., Professor of Clinical and Operative Surgery.

W. E. TAYLOR, M. D., Professor of Principles and Practice of Surgery.

A. M. WILDER, M. D., Professor of Ophthalmology and Otology.

F. B. KANE, M. D., M. R. C. S. I., Professor of Clinical Medicine and Pathology.

A. L. LENGFELD, M. D., Professor of Materia Medica and Medical Chemistry.

WM. B. LEWITT, M. D., Professor of Anatomy.

F. H. TERRILL, M. D., Professor of Therapeutics.

BENJ. P. SWAN, M. D., Professor of Diseases of Children.

ROBERT A. McLEAN, M. D., DEAN,

603 Merchant Street, corner Montgomery, San Francisco.

The Session of 1884 will begin February 1, and end October 31. During the term all the branches of medicine and surgery will be taught, didactically and clinically. Regular clinics are held three days in the week at the City and County Hospital, where the Professors of the practical Chairs have charge of wards, and possess every facility for the instruction of Students. Lectures are given daily by the Professors, and evening recitations are held three times a day.

## FEES.

Matriculation Fee (paid but once).....	\$
Demonstrators' Ticket.....	1
Fee for the First Course of Lectures.....	18
Fee for the Second Course of Lectures.....	18
No fee is required for the Third Course of Lectures.	
Graduating Fee.....	4

For further information address the Dean, ROBERT A. McLEAN, M. D.,

603 Merchant Street, Corner Montgomery, San Francisco.

# Hastings College of the Law.

---

## DIRECTORS.

HON. R. F. MORRISON, San Francisco,

Chief Justice of Supreme Court, ex officio President of Board.

COL. J. P. HOGE.....	San Francisco.
HON. OLIVER P. EVANS.....	San Francisco.
ROBERT P. HASTINGS, Esq.....	San Francisco.
HON. W. W. COPE.....	San Francisco.
S. M. WILSON, Esq.....	San Francisco.
THOMAS B. BISHOP, Esq.....	San Francisco.
THOMAS I. BERGIN, Esq.....	San Francisco.

---

## FACULTY.

WILLIAM T. REID, A. M., President.
JOHN NORTON POMEROY, LL. D., Professor of Municipal Law.
OLIVER P. EVANS, Assistant Professor.
S. CLINTON HASTINGS, LL. D., Dean, and Professor of Comparative Jurisprudence.
CHARLES P. HASTINGS, B. S., Registrar.

For particulars address Office of Dean and of Registrar, 636 Clay Street, room No. 2; Lecture Hall, 808 Montgomery Street, San Francisco. Lectures to Senior Class, at 4 P. M.; to Middle Class, at 2:45 P. M.; to Junior Class, at 8 A. M.

THE LIBRARY OF THE  
FEB 26 1931  
UNIVERSITY OF ILLINOIS

## College of Pharmacy.

(Department of Pharmacy, University of California.)

---

PRESIDENT .....	I. C. KEIL.
VICE PRESIDENT.....	E. W. RUNYON.
SECRETARY .....	F. GRAZER.
TREASURER.....	E. A. SCHRECK.
LIBRARIAN AND CURATOR .....	E. HOPPERSBÉRGER.
EDITOR .....	J. CULVERT.

### TRUSTEES.

J. CULVERT.	D. W. KIRKLAND.
J. H. DAWSON.	S. A. McDONNELL.
F. GRAZER.	VAL. SCHMIDT.

### FACULTY

WILLIAM T. REID, A. M.

President of the University of California, and ex officio President of the Faculty.

WILLIAM T. WENZELL, M. D., PH. G.

Professor of Chemistry.

EDWARD W. RUNYON, PH. G.

Professor of Theory and Practice of Pharmacy.

HERMANN BEHR, M. D.

Professor of Botany.

WILLIAM M. SEARBY, PH. G.

Professor of Materia Medica and Elementary Botany.

For particulars, inquire of W. M. SEARBY, Dean,

859 Market Street, San Francisco.







ANNOUNCEMENT  
OF THE  
COLLEGE OF DENTISTRY

OF THE  
UNIVERSITY OF CALIFORNIA,

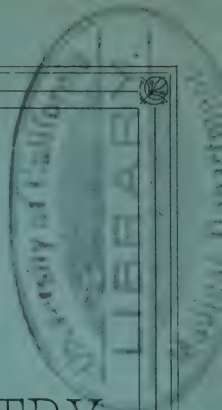
FOR ITS  
FOURTH SESSION

COMMENCING FEBRUARY 1st, 1885,  
AND  
ENDING OCTOBER 31st, 1885.

---

N. B.—Those who wish to receive the Announcement are  
requested to forward their Names and  
Addresses to the Dean.

---



THE LIBRARY OF THE  
FEB 26 1931  
UNIVERSITY OF ILLINOIS.



# ANNOUNCEMENT

OF THE

# COLLEGE OF DENTISTRY

OF THE

# UNIVERSITY OF CALIFORNIA,

FOR ITS

## FOURTH SESSION,

COMMENCING FEBRUARY 1st, 1885,

AND

ENDING OCTOBER 31st, 1885.

---

N. B.—Those who wish to receive the Announcement are  
requested to forward their Names and  
Addresses to the Dean.

---

## CONTENTS.

---

DIRECTORY, . . . . .	2
BOARD OF REGENTS, . . . . .	3
ACADEMIC SENATE, . . . . .	4
FACULTY, . . . . .	8
ANNOUNCEMENT, . . . . .	9
PETITION OF MEDICAL DEPARTMENT TO REGENTS, . . . . .	13
REPORT OF COMMITTEE ON INSTRUCTION AND VISITATION, . . . . .	14
ADOPTION OF THE REPORT BY BOARD OF REGENTS, . . . . .	15
STATEMENT OF FACULTY, . . . . .	15
COMMENCEMENT OF TERM, . . . . .	18
SCHEDULE OF STUDY, . . . . .	18
REQUIREMENTS FOR ADMISSION, . . . . .	18
REQUIREMENTS FOR GRADUATION, . . . . .	19
FEES, . . . . .	20
TEXT BOOKS, . . . . .	21
OUTLINE OF COURSE OF STUDY, . . . . .	22
GRADUATES OF 1882-'83, . . . . .	28
PHARMACEUTICAL FACULTY, . . . . .	32



# DIRECTORY.

---

## IN BERKELEY.

The office of the PRESIDENT is No. 1, *North Hall*.

The office of the DEAN is No. 3, *North Hall*.

The office of the RECORDER is No. 2, *North Hall*.

The office of the SECRETARY OF THE BOARD OF REGENTS is in *South Hall*.

The office of the LAND AGENT is in *South Hall*.

The office of the MANAGER OF THE UNIVERSITY PRINTING PRESS is No. 28, *North Hall*.

## IN SAN FRANCISCO.

The office of the DEAN and of the REGISTRAR OF THE COLLEGE OF LAW is No. 636 Clay Street, Room 2.

Lectures in the COLLEGE OF LAW are delivered in the Assembly Room of the Society of Pioneers, 808 Montgomery Street.

The office of the DEAN OF THE MEDICAL FACULTY is No. 603 Merchant Street.

The COLLEGE OF MEDICINE is situated on Stockton Street, between Chestnut and Francisco, in Toland Hall.

The office of the DEAN OF THE DENTAL FACULTY is No. 530 Sutter Street.

Lectures in the COLLEGE OF DENTISTRY are delivered in Toland Hall, Stockton Street, between Chestnut and Francisco.

The office of the DEAN OF THE COLLEGE OF PHARMACY is No. 859 Market Street.

The COLLEGE OF PHARMACY is situated at No. 113 Fulton Street, between Polk Street and Van Ness Avenue.

The office of the BOARD OF REGENTS is Mechanics' Institute, 31 Post Street.

# BOARD OF REGENTS.

## EX-OFFICIO REGENTS.

HIS EXCELLENCY GEORGE STONEMAN,	- - - -	SACRAMENTO.
<i>Governor, ex-officio President of the Board.</i>		
HIS HONOR JOHN DAGGETT,	- - - -	OAKLAND.
<i>Lieutenant-Governor.</i>		
HON. H. M. LARUE,	- - - -	SACRAMENTO.
<i>Speaker of the Assembly.</i>		
HON. W. T. WELCKER,	- - - -	SACRAMENTO.
<i>State Superintendent of Public Instruction.</i>		
HON. P. A. FINIGAN,	- - 1248 CALIFORNIA STREET,	SAN FRANCISCO.
<i>President of the State Agricultural Society.</i>		
P. B. CORNWALL,	- SOUTHEAST CORNER SPEAR AND FOLSOM STS.,	SAN FRANCISCO.
<i>President of the Mechanics' Institute.</i>		
W. T. REID, A. M.,	- CORNER ELLSWORTH AND ALLSTON STREETS,	BERKELEY.
<i>President of the University.</i>		

## \*APPOINTED REGENTS.

NAME.	ADDRESS.	TERM EXPIRES.
REV. HORATIO STEBBINS, A.M., D.D.,	- 1609 Larkin St., San Francisco,	- 1894.
HON. JOHN S. HAGER, A.M., LL.D.,	- Palace Hotel, San Francisco,	- 1896.
HON. J. WEST MARTIN,	- - - - - Oakland,	- 1888.
HON. JOHN F. SWIFT,	- - - - - San Francisco,	- 1898.
A. S. HALLIDIE, Esq.,	- - - - - 6 California St., San Francisco,	- 1892.
HON. JOS. W. WINANS, A.M.,	- - - - - 604 Merchant St., San Francisco,	- 1890.
HON. WM. T. WALLACE,	- - - - - 324 Pine St., San Francisco,	- 1886.
PROF. GEORGE DAVIDSON, A.M., Ph.D.,	- U. S. Coast Survey, San Francisco,	- 1884.
JOHN L. BEARD, A.M.,	- - - - - Centreville,	- 1892.
HON. A. L. RHODES,	- - - - - 606 California St., San Francisco,	- 1888.
PROF. WM. ASHBURNER,	- - - - - 1014 Pine St., San Francisco,	- 1893.
HON. T. GUY PHELPS,	- - - - - Belmont,	- 1896.
I. W. HELLMAN, Esq.,	- - - - - Los Angeles,	- 1886.
GEORGE T. MARYE, JR., LL.B.,	- - - - - 234 Montgomery St., San Francisco,	1898.
ARTHUR RODGERS, A.B., Ph.B.,	- - - - - 240 Montgomery St., San Francisco,	1890.
GEORGE J. AINSWORTH, Ph.B.,	- - - - - North Temescal,	- 1884.

Regular meetings of the Board of Regents are held quarterly, viz: on the first Tuesday in March, June, September, and December. The meeting in June is held at their office in Berkeley; the others, at their office in San Francisco.

\* In order of appointment.

# ACADEMIC SENATE

## OF THE

### UNIVERSITY OF CALIFORNIA.

---

NOTE.—Arranged Alphabetically in each Division of Professors, Instructors, and Lecturers.

---

- WILLIAM T. REID, A.M., . . . Cor. Allston and Ellsworth Sts., Berkeley.  
*President.*
- WILLIAM ASHBURNER, . . . . . 1014 Pine St., San Francisco.  
*Honorary Professor of Mining.*
- HERMANN H. BEHR, M.D., . . . . . 34 Ellis St., San Francisco.  
*Professor of Botany (College of Pharmacy).*
- GEO. WOODBURY BUNNELL, A.M., Cor. Telegraph and Caledonia Avs., Oakland.  
*Professor of the Greek Language and Literature.*
- E. O. COCHRANE, D.D.S., . . . . . 850 Market St., San Francisco.  
*Clinical Professor of Mechanical Dentistry.*
- R. BEVERLY COLE, A.B., M.D., M.R.C.S., ENG., 518 Sutter St., San Francisco.  
*Professor of Obstetrics and Gynecology.*
- ALBERT S. COOK, PH.D., . . . Cor. Dwight Way and Etna St., Berkeley.  
*Professor of the English Language and Literature.*
- GEORGE DAVIDSON, A.M., PH.D., . . . 923 Hyde St., San Francisco.  
*Honorary Professor of Geodesy and Astronomy.*
- S. W. DENNIS, M.D., D.D.S., . . . . . 530 Sutter St., San Francisco.  
*Professor of Operative Dentistry and Dental Histology (Dean of Dental Faculty).*
- L. L. DUNBAR, D.D.S., . . . . . 23 Kearny St., San Francisco.  
*Professor of Dental Pathology and Therapeutics.*
- STEPHEN J. FIELD, LL.D., . . . . . Washington, D. C.  
*Honorary Professor of Law.*
- M. W. FISH, M.D., . . . . . East Oakland.  
*Professor of Physiology and Microscopy.*
- C. L. GODDARD, A.M., D.D.S., . . . . . 200 Post St., San Francisco.  
*Professor of Mechanical Dentistry.*

- S. CLINTON HASTINGS, LL.D., . . . . . 636 Clay St., San Francisco.  
*Professor of Comparative Jurisprudence.*
- ROBERT P. HASTINGS, . . . . . 418 California St., San Francisco.  
*Dean of the Law Faculty.*
- FREDERICK G. HESSE, . . . . . Cor. Jackson and Fifth Sts., Oakland.  
*Professor of Industrial Mechanics.*
- EUGENE W. HILGARD, PH.D., . . . . . Bancroft Way, near Audubon St., Berkeley.  
*Professor of Agriculture, Agricultural Chemistry, General and Economic Botany.*
- GEORGE H. HOWISON, A.M., . . . . . Berkeley.  
*Mills Professor of Mental and Moral Philosophy and Civil Polity.*
- J. A. HUTTON, 1st Lt., 8th Infantry, U. S. A., . . . . . Dwight Way, Berkeley.  
*Professor of Military Science and Tactics.*
- F. B. KANE, M.D., M.R.C.S.I., . . . . . 46 O'Farrell St., San Francisco.  
*Professor of Clinical Medicine and Pathology.*
- MARTIN KELLOGG, A.M., . . . . . Bushnell St., Berkeley.  
*Dean, and Professor of the Latin Language and Literature.*
- JOHN LECONTE, M.D., LL.D., . . . . . Cor. Dwight Way and Etna St., Berkeley.  
*Professor of Physics.*
- JOSEPH LECONTE, M.D., LL.D., . . . . . Bancroft Way, near Piedmont Ave., Berkeley.  
*Professor of Geology and Natural History.*
- A. L. LENGFELD, M. D., . . . . . Cor. Stockton and Geary Sts., San Francisco.  
*Professor of Materia Medica and Medical Chemistry.*
- WILLIAM B. LEWITT, M.D., . . . . . 2110 Mason St., San Francisco.  
*Professor of Anatomy.*
- ROBERT A. McLEAN, M.D., . . . . . 603 Merchant St., San Francisco.  
*Professor of Clinical and Operative Surgery (Dean of Medical Faculty).*
- W. F. McNUTT, M.D., M.R.C.P., EDIN., ETC., 121 Montgomery St., San Francisco.  
*Professor of Principles and Practice of Medicine.*
- BERNARD MOSES, PH.D., . . . . . Audubon St., Berkeley.  
*Professor of History and Political Economy.*
- JOHN NORTON POMEROY, LL.D., . . . . . 1327 Leavenworth St., San Francisco.  
*Professor of Municipal Law.*
- ALBIN PUTZKER, . . . . . Cor. Humboldt Ave. and Parker St., Berkeley.  
*Professor of the German Language and Literature.*
- WILLARD B. RISING, PH.D., . . . . . Cor. Allston and Chapel Sts., Berkeley.  
*Professor of Chemistry.*
- EDWARD W. RUNYON, PH.G., . . . . . 529 Market St., San Francisco.  
*Professor of Pharmacy.*
- WILLIAM M. SEARBY, PH.G., . . . . . 859 Market St., San Francisco.  
*Professor of Materia Medica and Elementary Botany (Dean of Pharmaceutical Faculty).*
- G. A. SHURTLEFF, M.D., . . . . . Stockton.  
*Professor of Mental Diseases and Medical Jurisprudence.*
- FRANK SOULÉ, JR. (United States Military Academy), 940 Oak St., Oakland.  
*Professor of Civil Engineering and Astronomy.*

- IRVING STRINGHAM, PH.D., . . . Cor. Piedmont and Bancroft Way, Berkeley.  
*Professor of Mathematics.*
- MAURICE J. SULLIVAN, D.D.S., . . . . . 30 Post St., San Francisco.  
*Clinical Professor of Operative Dentistry.*
- BENJ. R. SWAN, M.D., . . . . . 310 Stockton St., San Francisco.  
*Professor of Diseases of Children.*
- W. E. TAYLOR, M.D., . . . . . 215 Geary St., San Francisco.  
*Professor of the Principles and Practice of Surgery.*
- F. H. TERRILL, A.M., M.D., N. E. cor. Stockton and Sutter Sts., San Francisco.  
*Professor of Therapeutics.*
- WILLIAM T. WENZELL, M.D., . . . . . 19 Drumm St., San Francisco.  
*Professor of Chemistry (College of Pharmacy).*
- A. M. WILDER, M.D., . . . . . 215 Geary St., San Francisco.  
*Professor of Ophthalmology and Otology.*
- , . . . . .  
*Agassiz Professor of the Oriental Languages and Literatures.*
- C. B. BRADLEY, A.B., . . . . . 668 Eighteenth St., Oakland.  
*Instructor in English.*
- ROSS E. BROWNE, . . . . . 518 Eighteenth St., Oakland.  
*Instructor in Mechanical and other Branches of Instrumental Drawing.*
- SAMUEL B. CHRISTY, PH.B., . . . . . Piedmont, near Bancroft Way, Berkeley.  
*Instructor in Mining and Metallurgy.*
- JOHN B. CLARKE, PH.B., . . . . . 1736 Thirteenth St., Oakland.  
*Instructor in Mathematics.*
- WM. W. DEAMER, A.B., . . . . . Cor. Home and University Ave., Berkeley.  
*Instructor in Latin (Recorder).*
- GEORGE C. EDWARDS, PH.B., . . . . . 1568 Webster St., Oakland.  
*Instructor in Mathematics.*
- A. WENDELL JACKSON, JR., PH.B., . . . . . Fourth Club House, Berkeley.  
*Instructor in Mineralogy, Petrography, and Economic Geology.*
- HENRY B. JONES, . . . . . North Temescal.  
*Instructor in French.*
- WM. CAREY JONES, A.M., . . . . . Bancroft Way, near Dana St., Berkeley.  
*Instructor in United States History and Constitutional Law.*
- EDMOND C. O'NEILL, PH.B., . . . . . 1403 Chestnut St., Oakland.  
*Instructor in Chemistry.*
- W. G. RAYMOND, . . . . . Berkeley.  
*Instructor in Civil Engineering.*
- F. SLATE, JR., . . . . . Audubon St., near Bancroft Way, Berkeley.  
*Superintendent of Physical Laboratory, and Instructor in Physics and Mechanics.*
- CHARLES H. DWINELLE, PH.B., Cor. Dwight Way and Ellsworth St., Berkeley.  
*Lecturer on Practical Agriculture.*
- E. J. WICKSON, A.M., . . . . . Berkeley.  
*Lecturer on Dairying.*



# UNIVERSITY OF CALIFORNIA.

## COLLEGE OF DENTISTRY.

TOLAND HALL, CORNER OF STOCKTON AND FRANCISCO STREETS,  
SAN FRANCISCO, CAL.

### FACULTY.

WILLIAM T. REID, A. M.,  
President of the University, and ex-officio President of the Faculty.

JOSEPH LE CONTE, M. D., LL. D.,  
Honorary Professor of Biology.

S. W. DENNIS, M. D., D. D. S.,  
Dean, and Professor of Operative Dentistry, and Dental Histology.

C. L. GODDARD, A. M., D. D. S.,  
Professor of Mechanical Dentistry.

M. W. FISH, M. D.,  
Professor of Physiology.

W. E. TAYLOR, M. D.,  
Professor of the Principles and Practice of Surgery.

A. L. LENGFELD, M. D.,  
Professor of Chemistry and Materia Medica.

WM. B. LEWITT, M. D.,  
Professor of Anatomy.

E. O. COCHRANE, D. D. S.,  
Clinical Professor of Mechanical Dentistry.

MAURICE J. SULLIVAN, D. D. S.,  
Clinical Professor of Operative Dentistry.

L. L. DUNBAR, D. D. S.,  
Professor of Pathology and Therapeutics.

### DEMONSTRATORS.

J. N. BLOOD, D. D. S., E. E. PARK, D. D. S.,  
Demonstrators of Operative Dentistry.

CHARLES BOXTON, D. D. S., M. F. GABBS, D. D. S.,  
Demonstrators of Mechanical Dentistry.

JOHN G. DAY, M. D.,  
Assistant to the Chair of Anatomy.

ARNOLD A. D'ANCONA, A. B., M. D.,  
Assistant to the Chair of Physiology.

WINSLOW ANDERSON, M. D.,  
Assistant to the Chair of Materia Medica and Medical Chemistry.

### \* CLINICAL INSTRUCTORS.

C. F. W. BOEDECKER, M. D., D. D. S., New York.,

H. C. DAVIS, L. D. S.,

J. H. HATCH, D. D. S.,

C. W. HIBBARD, D. D. S.,

R. W. HENDERSON,

A. F. McLAIN, M. D., D. D. S.

THOMAS MORFEW, D. D. S.,

H. J. PLOMTEAUX, D. D. S.,

W. E. PRICE, D. D. S.,

JOHN RABE, D. D. S.,

J. L. WILLIAMS, D.D.S., New Haven, Conn.

S. W. DENNIS, Dean of the Faculty,  
530 Sutter Street, San Francisco.

\* Arranged alphabetically.

## ANNOUNCEMENT.

---

### DENTAL DEPARTMENT.

---

On February 1st, 1885, the Dental Department of the University of California commences its fourth annual session. It will close October 31st, 1885, making a continuous term of nine months.

From the organization of the College of Dentistry it has been the aim of its founders to make a place for it among the leading institutions of a similar character in the United States and Europe. To attain this object, it has been necessary to adopt a progressive curriculum. Thus far the record of the College has been in accordance with the original design. When vacancies occurred or new positions were created by the Faculty, members of the Profession were chosen to fill them who had expressed themselves as against regressive movements, and in favor of the highest possible standard of dental education.

We think a brief history of the rise and progress of the Dental Department of the University of California will not be out of place here, nor uninteresting. It was the second Dental College in the United States to adopt a nine months' term, and the third to require a preliminary examination for admission, or rather to state the nature of that examination. At the outset, and in accordance with the custom adopted by similar institutions of learning, the Faculty determined to offer every opportunity and facility to those members of the profession who had had seven years or more of practical experience, but who had not enjoyed the advantages of a collegiate course. This was done, not only that they might better qualify themselves for their professional labors, but that they might also attain the rank among their professional fellows which is so commendable and desirable to all men of laudable ambition, professional and intellectual pride.

The first announcement (that of 1882) gave notice, that after the first year a preliminary examination would be required for admission ; and that all matriculates prior to the beginning of the next course—June 1st, 1883—could enter without undergoing that examination. In the announcement of 1883 notice was also given, that in 1884 the Faculty would adopt a nine months' term. Further notice was given, in the same announcement, that students would be required to subscribe to Article II., Section 3 of the Code of Ethics of the American Dental Association ; and that on and after 1886 three years of study, including attendance upon two courses of lectures, would be required for graduation in the Dental Department of the University of California. The Faculty, having already determined to require of graduates of medicine one full year of study in this College, before applying for the degree of Doctor of Dental Surgery, now gives notice, that after the session of 1885 graduates of medicine will be required to have two years of practical instruction in Dentistry, one year of which must be spent in the Dental Department of the University of California, including a course of lectures, in order to receive the degree of Doctor of Dental Surgery. This requirement grows out of the fact, that graduates of medicine rely and presume too much upon their medical qualifications, and therefore do not apply themselves sufficiently to the consideration of practical matters necessary for a successful practitioner of Dentistry. Students in this College are required to subscribe to the Code of Ethics, that they may know what is considered unprofessional, and to prevent them during their studentship from violating ethical principles which they will be required to observe after they have legitimately entered the profession. Students are required to attend seventy-five per cent. of the lectures in their junior year in order to enter the senior class. Senior students are required to attend seventy-five per cent. of the lectures, also, during their senior year before they will be permitted to apply for graduation.

The Faculty is more than satisfied with the result of the advanced standard and increased term. It is well known that the former has and will deter some from entering our College, and cause them to go elsewhere ; but it is also known, that those who do apply and are admitted will have nothing to regret when they have attained the degree of Doctor of Dental Surgery from the University of California.

The plan of a nine-months' term gives longer time for study, more time for practical instruction, and less *crowding* of both. We are

glad to be able to say that the more intelligent students, and those actuated by the best motives, favor the step in advance.

At the last meeting (November 5th, 1884) a resolution was unanimously adopted by the Academic Senate of the University of California, which provides that the affiliated Colleges of Medicine, Pharmacy and Dentistry may have a free course of lectures at Berkeley, consisting of Botany, systematic and structural ; Comparative Anatomy and Physiology ; Biology, with laboratory training ; Organic and Inorganic Chemistry, with laboratory work ; Microscopic Technology, and Physiological and Pathological Histology ; Physics, with laboratory work, and Freehand Drawing. This course is not compulsory, but students who take the three-years' course of study in the Dental Department may have the privilege of spending as much of either the first or second year of the three devoted to the study of Dentistry as they may desire, in taking this course at Berkeley, for which they will be accredited the same as though they spent their whole time at the College of Dentistry. Through this wise and liberal action of the Academic Senate, the opportunity is provided for those students of intellectual capacity and professional ambition to attain that technical knowledge and practical laboratory training and experience so necessary to the scientific investigation of the ætiology of disease. It is well known that but few dental or medical students, or even practitioners, have much knowledge of Histology or Microscopic Technology. When this is the case with a student it is impossible for him to comprehend anything he may hear upon the subject, or to observe the histological relations of normal and abnormal organic tissues. With the advantage of the special course at Berkeley, the students in the Dental Department of the University of California are enabled to carry their studies to whatever extent they may elect—free.

Joseph LeConte, M. D., LL. D., Honorary Professor of Biology will deliver a special course upon that subject before the class. His eminent ability as a scholar and lecturer cannot help attracting the attention of the scientific men in our profession to the dignity of the school, and the character of its curriculum, as well as making a marked impression on the discipline and culture of the classes.

The College is beautifully situated, well ventilated and lighted, and admirably constructed and arranged for the work in hand. There is always an abundance of clinical material, both operative and mechanical, as well as pathological, drawn from a heterogeneous population of between 250,000 and 300,000. There are ten Pro-



fessors in the College—eight didactic and two clinical—besides a corps of able and earnest demonstrators, both operative and mechanical. The Didactic Professors deliver two lectures per week, each, as will be seen on the schedule of instruction.

The Clinical Professor, in the Operative Department, devotes three half days per week to the practical consideration and demonstration of the principles taught from the Didactic Chair; and the Clinical Professor of Mechanical Dentistry devotes seven hours per week to his Department, and there are demonstrators always present during clinic hours. Wednesday afternoon of each week is set apart for clinical instructors, and they are arranged upon the schedule in alphabetical order, and two or more are required to operate each week according to schedule, during the term.

In consideration of the elevated plane of our course, we feel that the profession and the people have nothing to regret in the establishment of this Dental College among us; and the graduates of it will have nothing to fear when they are brought into intellectual and professional competition with graduates of other colleges or non-graduates.

In conclusion, let us once more express our thanks for the support which we have received from the University, Medical and Dental professions, and the people, and hope that at no very distant day there will be one united effort for the promotion of the work in which the Faculty is engaged.

For the benefit of those who may not have seen former announcements, and who may be interested in the origin, character, and dignity of the Dental Department of the University of California, we again submit an extract from the records of the proceedings of the Board of Regents of the University of California, that they may understand whence came the first effectual step towards the founding of the first and only Dental College on the Pacific Coast.



# MEDICAL DEPARTMENT, UNIVERSITY OF CALIFORNIA.

SAN FRANCISCO, CAL., May 28, 1881.

*To the Honorable the Board of Regents of the University of California :*

GENTLEMEN : We, the undersigned, members of the Faculty of the Medical Department of the University of California, would respectfully recommend that a Dental Department be established in connection with the Medical Department of the University of California, and for the following reasons, viz :

1st.—That Dentistry is an important collateral branch of Medical Science.

2d.—That Dental education is necessary for the public good.

3d.—It can be most thoroughly acquired in connection with the Medical Department, and under the management of competent men, actively engaged in the dental profession.

4th.—That the Universities of Harvard, Pennsylvania, Michigan, and Vanderbilt have instituted and organized departments that are known as Dental Departments, which are now in active operation.

5th.—That if your honorable body deem it expedient, and will organize a Dental Department in the University of California, and in connection with the Medical Department of said University, we can and will give said Dental Department lecture and clinic room free of expense.

6th.—We are aware that a Dental Department was partially organized some time since, but under such circumstances that no progress has been made towards perfecting the organization, and starting it into operation.

We think, if you will organize a new Dental Department, that, with the facilities afforded by the Medical Department, it can be put in operation immediately.

We would further state that we endorse the appointments you have already made in the Dental Department.

Very Respectfully,

- C. M. BATES, M. D.,  
*Professor of Clinical Medicine.*
- JAMES SIMPSON, M. D.,  
*Professor of Materia Medica and Therapeutics.*
- R. A. MCLEAN, M. D.,  
*Professor of Clinical and Operative Surgery.*
- ALFRED W. PERRY, M. D.,  
*Professor of Medical Chemistry.*
- W. LEWITT, M. D.,  
*Professor of Anatomy.*
- W. F. McNUTT, M. D., F. R. C. S.,  
*Professor of Principles and Practice of Medicine.*
- HENRY FERRER, M. D.,  
*Professor of Pathology and Microscopy.*
- W. E. TAYLOR, M. D.,  
*Professor of Principles and Practice of Surgery.*
- W. H. MAYS, M. D.,  
*Lecturer on Obstetrics and Gynecology.*
- F. W. HATCH, A. M., M. D.,  
*Professor of Hygiene.*

The foregoing petition was referred by the Board of Regents to the Committee of Instruction and Visitation, who reported August the 1st, 1881, as follows:

"In the matter of the petition of the Faculty of the Medical Department of the University for the establishment of a Dental Department, the committee beg to report their approval of the object of the petition, and recommend that the whole matter be referred to a Committee of the Board, to confer with the Dean of the Medical Faculty, and report a plan of organization of said Department.

REV. HORATIO STEBBINS, D. D.  
Prof. GEORGE DAVIDSON,  
Prof. WILLIAM ASHBURNER,  
Hon. B. B. REDDING,  
Hon. FRED. M. CAMPBELL,  
*Committee."*

September 7th, 1881.

The following report of the Committee of Instruction and Visitation was unanimously adopted by the Board of Regents :

FIRST. That a Dental Department be established in connection with the Medical Department of the University, and the same be organized with :—

1st.—A Professor of the Principles and Practice of Operative Dentistry.

2d.—A Professor of Dental Pathology and Therapeutics.

3d.—A Professor of Dental Art and Mechanism.

4th.—A Professor of Physiology.

5th.—A Professor of Chemistry.

6th.—A Professor of Anatomy.

7th.—A Professor of Surgery.

That S. W. Dennis, M. D., D. D. S., be appointed Professor of the Principles and Practice of Operative Dentistry. [Re-appointed.]

That A. F. McLain, M. D., D. D. S., be appointed Professor of Dental Pathology and Therapeutics. [Re-appointed.]

That C. L. Goddard, A. M., D. D. S., be appointed Professor of Dental Art and Mechanism.

That M. W. Fish, M. D., be appointed Professor of Physiology.

That A. W. Perry, M. D., be appointed Professor of Chemistry.

That William Lewitt, M. D., be appointed Professor of Anatomy :  
and

That W. E. Taylor, M. D., be appointed Professor of Surgery.

Attest :

J. H. C. BONTE,

Secretary of the Board of Regents.

In addition, we would state that the Board of Regents of the University of California, in conjunction with the Medical Faculty thereof, has instituted and organized this department as an integral part of the State University, and for the following reasons, namely :

FIRST. In deference to the opinion so often expressed by the Profession and the People, individually and collectively, in favor of a Dental College, as a much desired object and public necessity.

SECOND. From a desire to comply with the public wants and requirements by enlarging the opportunities and facilities for both general and special culture in the University of California, and upon the Pacific Coast.

THIRD. Recognizing the importance and beneficence which the art and science of dental surgery, as a collateral branch of medicine, bears upon the health and comfort of the human family.

FOURTH. Appreciating the necessity for the proper training and instruction of those who propose to assume the important duties and responsibilities of this profession.

FIFTH. Recognizing the great extent of territory embraced in the Pacific Slope, and knowing the wide belt of country without educational facilities connecting the Pacific States and Territories with the Atlantic States.

SIXTH. From a desire to relieve those who wish to acquire a dental education from the anxieties, cares, and great expense incident to so long a journey and stay as were necessary to acquire a thorough professional training, or knowledge sufficient to command public confidence, and meet their requirements.

We would further state, that the great progress of Dentistry has given it rank among the liberal professions, and that rank and progress can be maintained in the future only by liberal studies.

In accordance with the petition already submitted, the Dental Department of the University of California will be accommodated in the Medical Hall of the University, ample provision having been made for lecture and clinic room, through the generous offer of the Medical Faculty.

All instruction from the Medical Chairs, utilized in the Dental Department, will be given to students in Dentistry conjointly with that given to the medical students, and the Dental instruction will be separate, but all under the same roof.

We submit the following extract from the announcement of the Medical Department of the University of California, for the consideration of those who contemplate taking a dental course:



"While the several other Colleges of the State University are clustered at Berkeley, its Medical Department is, for convenience of clinical study, conducted wholly, or almost wholly, in San Francisco. The advantages for demonstrative teaching presented by a seaport city of nearly 300,000 inhabitants will be recognized as almost unbounded.

"The main lecture hall of the college is capable of seating 500 persons. The clinical amphitheater is about equally capacious.

"The museum contains an extensive collection of specimens and preparations.

"The dissecting room is fitted up with all the modern improvements.

"The laboratory is replete with all chemicals and apparatus necessary for practical teaching.

"A suite of apartments in the building is set apart for the dispensary clinics."

There are two large and convenient dental operating rooms, with windows of extra width and height, thus giving light that is unsurpassed. They are furnished with both Morrison, Archer and Cycloid chairs, and handsome operating stands, which will be assigned to students in the order of their matriculation. The laboratory is commodious, and furnished with benches, lathes, furnaces for melting, forge, rolling mill, continuous-gum furnaces, and all other requisites for thorough work. Each student is required to furnish his own instruments and tools, and will be provided with a separate drawer in which they can be securely locked; also with a separate bench, provided with gas for heating purposes.

Those who have laboratory tools and appliances should bring them; those who have not are advised to defer purchasing till they arrive. Lists will be furnished when desired. During the hours devoted to mechanical dentistry, the clinical Professor or competent demonstrators will be present to assign patients to students, and superintend and assist them in their operations.

Both the Medical and Dental Departments of the University of California, *unlike corresponding Colleges of the Eastern States*, have their regular term in the Spring and Summer.



Term commences February 1st, 1885, and closes October 31st, 1885.

### SCHEDULE OF STUDY.

#### ORDER OF LECTURES AND CLINICS.\*

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
9 a. m. till 10 a. m.	CLINIC, 9 to 12, Operative Dentistry, Prof. SULLIVAN.	LECTURE, Operative Dentistry, Prof. DENNIS.	CLINIC, 9 to 11, Operative Dentistry, Prof. SULLIVAN.	LECTURE, Operative Dentistry, Prof. DENNIS.	CLINIC, 9 to 11, Operative Dentistry, Prof. SULLIVAN.	CLINIC, Hospital, Medical and Surgical, 9 a. m. until 12 p. m.
10 a. m. till 11 a. m.		CLINIC, 10 to 12, Operative Dentistry, Dr. BLOOD.		CLINIC, 10 to 12, Operative Dentistry, Dr. BLOOD.		
11 a. m. till 12 m.			LECTURE, Surgery, Prof. TAYLOR.		LECTURE, Surgery, Prof. TAYLOR.	
12 m. till 1 p. m.		CLINIC, 12 to 3, Mechanical Dentistry, Dr. BOSTON.	CLINIC, 12 to 2, Mechanical Dentistry, Prof. COCHRANE.	CLINIC, 12 to 2, Mechanical Dentistry.	CLINIC, 12 to 2, Mechanical Dentistry, Prof. COCHRANE.	
1 p. m. till 2 p. m.			CLINICAL INSTRUCTORS, from 2 to 6.	LECTURE, Chemistry, Prof. LENGFELD.	CLINIC, 12 to 3, Mechanical Dentistry, Dr. GABBS.	
2 p. m. till 3 p. m.	LECTURE, Pathology and Therapeutics, Prof. DUNBAR.	LECTURE, Physiology, Prof. FISH.		LECTURE, Chemistry, Prof. LENGFELD.	LECTURE, Pathology and Therapeutics, Prof. DUNBAR.	
3 p. m. till 4 p. m.	LECTURE, Mechanical Dentistry, Prof. GODDARD.	LECTURE, Anatomy, Prof. LEWITT.		LECTURE, Physiology, Prof. FISH.	LECTURE, Mechanical Dentistry, Prof. GODDARD.	
4 p. m. till 5 p. m.				LECTURE, Anatomy, Prof. LEWITT.		
5 p. m. till 6 p. m.	DISSECTING.	DISSECTING.		DISSECTING.	DISSECTING.	CHEMICAL AND HISTOLOGICAL LABORATORY, from 1 p. m. until 6 p. m.

\* Didactic Chairs printed horizontally and the Clinical Chairs vertically.

### REQUIREMENTS FOR ADMISSION.

Every candidate for admission must be 18 years of age, and is required to present to the Faculty satisfactory evidence of a good moral character. All matriculates before admission will be required to write a brief essay, not to exceed one page of foolscap in length, which will serve as a test of their qualifications in orthography and grammar; and also undergo an examination in the elementary principles of physics and mathematics.

No matriculation examination will be required of candidates who have received a Collegiate Degree, or who have passed the examination for admission to, or are graduates of, the College of Letters or of Science of the University of California, or who have passed the matriculation examination of any recognized college, or who present

a teacher's certificate covering the required subjects from a recognized Normal or High School.

He shall subscribe to Article II, Section 3, of the Code of Ethics of the American Dental Association.\*

Before admission to the Senior Class, there will be a preliminary examination in Anatomy, Physiology, Chemistry, and Mechanical Dentistry.

---

### REQUIREMENTS FOR GRADUATION.†

The candidate for the degree of Doctor of Dental Surgery must have attained the age of 21 years, and be of good moral character.

He shall have passed a satisfactory examination, both oral and written.

He shall have studied Dentistry two years, including the time spent in attending lectures.

He shall have attended two full courses in the Dental Department of the University of California, or one year in some other reputable Dental College, and the second or last in this college.

He shall again subscribe to Article II, Section 3, of the Code of Ethics of the American Dental Association.

He *may* write an original thesis upon some subject pertaining to Dentistry or Medicine.

A written and oral examination is required in lieu of a thesis.

The candidate is required to dissect at least two parts. He must treat thoroughly some patient requiring all the usual dental operations, and bring such patient before the Professors of Operative Dentistry and Pathology and Therapeutics. He must also take up at least one artificial case, and, after it is completed, bring his patient before the Professor of Mechanical Dentistry at least thirty days before the close of the term. He must also prepare a specimen case, to be deposited in the college collection, and present the same to the Professor of Mechanical Dentistry before the 1st of October. The

---

\* N. B. The object of this requirement is to prevent students from committing unprofessional acts during their Collegiate Course.

† The Faculty hereby gives notice that after January 1st, 1886, three years' study, including attendance upon two courses of lectures, will be required for graduation, and that graduates of medicine will be required to have two years of practical instruction or experience in dentistry; one year of which must be spent in the Dental Department of the University of California, including a course of lectures, for graduation.

operating must be performed, and the work on the artificial cases done, at the college building, and exclusively by the applicant for the degree.

Prior to 1886 graduates in Medicine may apply for the Degree of Doctor of Dental Surgery upon attending one full year in the Dental Department of the University of California.

Prior to 1886 dentists of seven years' practice may apply for the Degree of Doctor of Dental Surgery, after having attended one full course in the University of California.

After these requirements have been complied with, upon the recommendation of the Faculty and approval of the Board of Regents, the candidate shall receive the Degree of Doctor of Dental Surgery.

Students who have had no office instruction before attending lectures are advised to attend three courses. No fees will be required for the third course, except that of the Demonstrator of Anatomy.

---

#### FEES.

The Matriculation Fee will be (paid once),	-	-	-	\$5.00
Tuition,	-	-	-	100.00
Demonstrators' Fees,	-	-	-	30.00
Diploma Fee,	-	-	-	30.00

## TEXT BOOKS.\*

---

ANATOMY—*Gray.*

DENTAL ANATOMY—*Tomes.*

PHYSIOLOGY—*Dalton or Flint.*

HISTOLOGY—*Stricker, Frey, Beal or Wythe.*

PATHOLOGY—*Wagner.*

DENTAL PATHOLOGY—*Wedl.*

ORAL SURGERY—*Garretson.*

OPERATIVE DENTISTRY—*Taft or Harris.*

MECHANICAL DENTISTRY—*Richardson or Harris.*

ORAL DEFORMITIES—*Kingsley.*

DENTAL METALLURGY—*Essig.*

MICROSCOPICAL MORPHOLOGY—*Heitzman.*

CHEMISTRY—*Lloyd.*

THERAPEUTICS—*Wood, Biddle or Bartholow.*

MEDICAL DICTIONARY—*Dungleson.*

DENTAL DICTIONARY—*Harris.*

MATERIA MEDICA—*U. S. Pharmacopœia.*

DENTAL MATERIA MEDICA AND THERAPEUTICS—*Stockens.*

---

\* When "or" is used between authors, students may choose either.

# OUTLINE OF THE COURSE OF STUDY.

---

## BIOLOGY.

Professor Joseph LeConte will deliver a series of lectures on the Correlation of Vital with Physical and Chemical Forces; also upon the Homologies of the Vertebrate Skeletons.

---

## PRINCIPLES AND PRACTICE OF OPERATIVE DENTISTRY, DENTAL HISTOLOGY AND DENTAL PATHOLOGY.

It will be the aim of the incumbent of this Chair, as it is the object of it, to give a comprehensive course upon all of the principles underlying this branch of Dental Science. The means and methods at present used in practice will be fully considered; also, a comparison will be made of the present and former systems of operating.

The intra and extra uterine development of the teeth will be fully dwelt upon, from the inception to the shedding of the temporary or deciduous set, on to the full and complete eruption of the permanent set, and their final loss.

The topographical and general, as well as the minute or histological, anatomy of the teeth will be fully illustrated.

The Principles of the Microscope, and the application of them to the study of the laws of life, health and disease, will demand a share of his attention. A portion of his time will be devoted to Dental Pathology.

The Principles and Practice of Operative Dentistry embrace so much, that the Lecturer from this Chair may necessarily encroach upon the field of several others; but should this be the case, it will be only the outgrowth of a desire to make the course as instructive, and interesting, and comprehensive as possible.



## MECHANICAL DENTISTRY.

The instruction in Mechanical Dentistry will embrace everything necessary to enable the dentist successfully to supply substitutes for lost dental organs.

Special reference will be made to the principles involved in the restoration of the natural functions of the teeth, namely :—mastication, enunciation, and expression of the features, keeping in view always the health and the future usefulness of the living parts.

The various mechanical means employed in correcting irregularities will be explained and illustrated by means of a large number of drawings, appliances and casts of practical cases.

## PHYSIOLOGY.

The Lectures in this department, by Professor Fish, embrace a consideration of both General and Special Physiology, including all that has been developed up to the present time, and are illustrated by the largest and most complete series of colored drawings in the United States, prepared exclusively for these lectures ; besides which, the vast collection of preparations and drawings of the Scientific Department at Berkeley are at the command of the Professor. Vivisections are practiced when necessary to demonstrate principles, and the microscope is freely used for illustrating important facts and principles.

## SURGERY.

Professor Taylor delivers two lectures each week on the Art and Science of Surgery. The more recent views on the management of surgical conditions, and the appliances devised for their relief, are particularly dwelt upon, and illustrated with drawings and models when necessary. This course will include a series of lectures upon Operative Surgery, with demonstrations on the cadaver. The student will be drilled in the manipulation of instruments used in the various operations.

In addition to his usual course of lectures on surgery, he will pay particular attention to surgical diseases, and injuries of the head, face, jaws, and mouth.

---

### **CHEMISTRY AND MATERIA MEDICA.**

Professor Lengfeld will spare no effort to make the course in Chemistry and Materia Medica thoroughly practical and instructive. All important principles are illustrated by means of suitable philosophical, chemical, and other apparatus, and facts and theories are presented in a clear and comprehensive manner.

Special attention will be given to Prescription Writing, Urinary and Salivary Analysis and Toxicology, and to the nature, origin, physical and chemical properties of the various remedies officinal in the United States Pharmacopœia.

Dr. Winslow Anderson, assistant to the chair of Materia Medica and Medical Chemistry, will conduct the Laboratory investigations including qualitative analysis and recitations, at least two hours each week during the term.

---

### **THE DENTAL LABORATORY.**

The Dental Laboratory will be in charge of the Clinical Professor of Mechanical Dentistry, who will assign patients to students, and give practical instruction in preparing the mouth for the insertion of artificial teeth, taking impressions, selecting and arranging teeth, and the construction of artificial dentures on bases of vulcanite, celluloid, silver, gold, etc.; also in alloying, refining and preparing the metals for use. Special attention will be given to continuous gum work by the incumbent of this Chair. On account of the length of the term the opportunities for practise in correcting irregularities of the teeth will be unsurpassed, and will receive their share of attention.

## DENTAL INFIRMARY.

The Operating Department will be under the immediate supervision of the Clinical Professor of Operative Dentistry.

The rooms will be open during the forenoon of Monday, Tuesday, Wednesday, Thursday, and Friday, when all practical matters pertaining to Operative Dentistry will be fully dealt with by the incumbent of this Chair and the Assistant Demonstrators, one of whom will always be present—the Clinical Professor three half days out of five. As there is always an excess of Clinical material on hand, and there are six hundred and forty-eight hours, per term, (including three hours each Wednesday afternoon) devoted to the practical consideration of diseases of the teeth, and the adjacent parts, it is not difficult to estimate the advantages the students have in this Department.

---

## PATHOLOGY AND THERAPEUTICS.

The lectures delivered by the incumbent of this Chair will embrace a full and comprehensive course on the following topics:

1. GENERAL PATHOLOGY—In which will be discussed those general aspects of disease with which it is necessary to be acquainted, in order to be able to understand the nature of any departure from health; causes of disease, symptoms, diagnosis, prognosis, temperaments, pathology of anæsthetics, irritation, determination, congestion, inflammation and its terminations:—effusion, suppuration, ulceration, gangrene, sloughing, morbid growths, etc.

2. SPECIAL PATHOLOGY—In which a critical examination will be made into the special causes of dental decay; dental hygiene and prophylaxis; disease of the enamel—of the dentine; diseases of the dentinal pulp—together with the causes of alveolar abscess—its stages and results; exostosis of the roots and alveoli; necrosis and exfoliation; disease of the antrum; tumors, benign and malignant; diseases of the mucous membranes.

Neuralgia and other nervous affections will receive such attention as their importance may demand, and besides there will be presented such other special diseases as may in any degree be of interest to the Dental Practitioner, such as scurvy, scrofula, rachitis, and other diseases of the bones.

3. **GENERAL PRINCIPLES OF THERAPEUTICS**—Under which head the general application of medicines will be noticed—their action, constitutional and topical.

4. **SPECIAL THERAPEUTICS**—In connection with Dental Materia Medica, as incidentally related thereto.

### **PRACTICAL ANATOMY.**

The dissecting-room of the University is spacious, well ventilated, well lighted from above, and provided with every convenience. It is open throughout the year under the superintendence of the Professor of Anatomy, and the Demonstrator of Anatomy. A full supply of material is always procurable at small cost, and is thoroughly preserved from decomposition. When the dissections are conducted in a diligent manner, the student is furnished by the Demonstrator with certificates stating the amount and part dissected. The Dissecting Ticket (\$10.00) is good for the whole year, from January 1st to December 31st.

### **OPERATING ROOMS AND LABORATORY.**

The Operating Rooms and Laboratory are open during the entire course, when ample opportunities will be afforded the student to pursue the practical part of his studies under the guidance and supervision of competent demonstrators. The supply of patients during the first two years was abundant, and there is every reason to expect a larger supply in the future.

### **CLINICAL INSTRUCTION.**

During the course, Wednesday afternoons will be devoted to clinical lectures and operations by the Professors and Clinical Instructors.



## HOSPITALS.

All students in Dentistry will have all the facilities and opportunities enjoyed by the medical students in hospital practice and observation. They will have the freedom, as above represented, of the City and County Hospital, City Receiving Hospital, and San Francisco Female Hospital.

Medical and Surgical clinical lectures are given by the Professors of the Medical Department of the City and County Hospital, Tuesdays, Thursdays, and Saturdays, from 9 to 11 A. M.

For further particulars on this subject, see Medical Department Announcement.

## LIBRARY AND MUSEUM.

A nucleus has been formed from which it is hoped a large library and museum will grow. All members and friends of the Profession are invited to contribute books, pamphlets and journals, charts, anatomical, physiological and pathological specimens, casts of deformities and irregularities of the teeth and associate parts, or anything that will be useful or instructive.

These contributions will be placed in the library and museum, and marked with the name of the donor, if desired.

Dr. S. W. DENNIS, Dean of the Faculty,  
530 Sutter St., San Francisco, Cal.

**N. B.—BOARDING.** The expense of living in the City of San Francisco is very reasonable. Good board, with room rent, may now be procured at the low rate of \$5 per week, at a convenient distance from the College building. There is a free Public Library in San Francisco, of which students may have full benefit.



## GRADUATES.

---

SESSION 1882 and '83.

THOMAS WATSON HALL.....	Oakland, California.
CHARLES WESLEY HIBBARD.....	San Francisco, California.
THOMAS MORFFEY.....	San Francisco, California.
HENRY JOHN PLOMTEAUX.....	San Francisco, California.
CHARLES WESLEY RICHARDS.....	San Francisco, California.
WILLIAM HENRY STANLEY.....	San Francisco, California.
GUSTAVE WILLIAM SICHEL, M. D.....	San Francisco, California.
AUGUST VAN CRUMBRUGGHE.....	San Francisco, California.
JOHN NELSON BLOOD.....	Greenville, California.
CHARLES BOXTON.....	San Francisco, California.
MARIA ANGELINA BURCH. ....	Pescadero, California.
EDWIN OVERTON COCHRANE.....	San Francisco, California.
RUSSELL HOPKINS COOL.....	Oakland, California.
MILTON FRANCIS GABBS.....	Sutter Creek, California.
EDMUND PRICE.....	San Francisco, California.

## COMMENCEMENT, 1884.

---

The third Commencement exercises of the Dental Department of the University of California were held in connection with those of the Medical Department of the University, at the California Theater, Tuesday, November 11th, 1884, at 8 o'clock P. M.

### ORDER OF EXERCISES.

1. Overture, - - - ORCHESTRA, LOUIS SCHMIDT, Conductor.
  2. Prayer, - - - - - REV. S. P. SPRECHER.
  3. Music, - - - - - ORCHESTRA.
  4. Address on Behalf of the Medical Department,  
PROFESSOR F. H. TERRILL, A. M., M. D.
  5. Music, - - - - - ORCHESTRA.
  6. Address on Behalf of the Dental Department,  
PROFESSOR W. E. TAYLOR, M. D.
  7. Music, - - - - - ORCHESTRA.
  8. Conferring Degrees of Doctor of Medicine,  
PRESIDENT OF THE UNIVERSITY, WILLIAM T. REID, A. M.
  9. Conferring Degrees of Doctor of Dental Surgery,  
PRESIDENT OF THE UNIVERSITY, WILLIAM T. REID, A. M.
  10. Music, - - - - - ORCHESTRA.
  11. Administration of the Hippocratic Oath to the Graduates of  
Medicine,  
PROFESSOR R. BEVERLY COLE, A. M., M. D., M. R. C. S.,  
*Eng. Chairman of the Faculty of Medicine.*
  12. Music, - - - - - ORCHESTRA.
  13. Benediction, - - - - - REV. S. P. SPRECHER.
- 

### GRADUATING CLASS.

GEORGE WASHINGTON COOL.....	Oakland, California.
JOHN MICHAEL DUNN.....	Oakland, California.
ARCHIBALD DUNCAN GLEAVES.....	Anderson, California.
ROBERT NICOL.....	Archiestown, Scotland.
JUSTAVE CARL RIETZKE.....	Kuhn, Germany.
WILLIAM HENRY SIMMONS.....	Oakland, California.
ELMER JOSEPH WELDON.....	Vacaville, California.

# UNIVERSITY OF CALIFORNIA.

## Literary and Scientific (Undergraduate) Departments

### INCLUDING

- |   |                            |
|---|----------------------------|
| 1. COLLEGE OF LETTERS.<br>(CLASSICAL COURSE.) | 4. COLLEGE OF MINING.      |
| 2. COLLEGE OF AGRICULTURE.                    | 5. COLLEGE OF ENGINEERING. |
| 3. COLLEGE OF MECHANICS.                      | 6. COLLEGE OF CHEMISTRY.   |
|   | 7. LITERARY COURSE.        |
| 8. COURSE IN LETTERS AND SCIENCE.             |                            |

## FACULTIES OF COLLEGES OF SCIENCE AND LETTERS.

WILLIAM T. REID, A. M., President of the University.

WILLIAM ASHBURNER, Honorary President of Mining.

GEO. WOODBURY BUNNELL, A. M., Professor of the Greek Language and Literature.

ALBERT S. COOK, PH. D., Professor of the English Language and Literature.

GEO. DAVIDSON, A. M., Honorary Professor of Geodesy and Astronomy.

STEPHEN J. FIELD, LL. D., Honorary Professor of Law.

FREDERICK G. HESSE, Professor of Industrial Mechanics.

EUGENE W. HILGARD, PH. D., Professor of Agriculture, Agricultural Chemistry, General and Economic Botany.

MARTIN KELLOGG, A. M., Dean, and Professor of the Latin Language and Literature.

JOHN LECONTE, M. D., LL. D., Professor of Physics.

JOSEPH LECONTE, M. D., LL. D., Professor of Geology and Natural History.

BERNARD MOSES, PH. D., Professor of History and Political Economy.

WILLARD B. RISING, PH. D., Professor of Chemistry.

FRANK SOULE, JR., (U. S. Military Academy), Professor of Civil Engineering and Astronomy.

IRVING STRINGHAM, PH. D., Professor of Mathematics.

DAVID BARCROFT, PH. B., Instructor in Engineering.

ROSS E. BROWNE, Instructor in Mechanical and other Branches of Instrumental Drawing.

C. B. BRADLEY, A. M., Instructor in English.

SAMUEL B. CHRISTY, PH. B., Instructor in Mining and Metallurgy.

JOHN B. CLARKE, PH. B., Instructor in Mathematics.

CHARLES H. DWINELLE, PH. B., Lecturer on Practical Agriculture.

GEORGE C. EDWARDS, PH. B., Instructor in Mathematics.

A. WENDELL JACKSON, JR., PH. B., Instructor in Mineralogy.

HENRY B. JONES, Assistant Instructor in French.

WM. CAREY JONES, A. M., Recorder, and Instructor in United States History and Constitutional Law.

EDMUND C. O'NEIL, PH. B., Instructor in Chemistry.

ALBERT PUTZKER, Instructor in German.

JOSEPH C. ROWELL, A. B., Librarian.

E. H. SEARS, A. B., Instructor in Latin and Greek.

F. SLATE, JR., Superintendent of the Physical Laboratory.

MYER E. JAFFA, PH. B., Assistant in Agricultural Chemistry.

FREDERICK W. MORSE, PH. B., Assistant in Viticultural Laboratory.

J. J. RIVERS, Curator of the Museum.

For particulars, address MARTIN KELLOGG, A. M., Dean, Berkeley, Cal.

## UNIVERSITY OF CALIFORNIA.

## MEDICAL DEPARTMENT.

## FACULTY.

W. T. REID, A.M.,

*President of the University.*

R. BEVERLY COLE, A.M., M.D., M.R.C.S., Eng.,

*Professor of Obstetrics and Gynecology.*

M. W. FISH, M.D.,

*Professor of Physiology and Microscopy.*

\* F. W. HATCH, A.M., M.D.,

*Professor of Hygiene.*

G. A. SHURTLEFF, M.D.,

*Professor of Mental Diseases and Medical Jurisprudence.*

W. F. McNUTT, M.D., M.R.C.P., Edin., etc.

*Professor of Principles and Practice of Medicine.*

ROBERT A. McLEAN, M.D.,

*Professor of Clinical and Operative Surgery. Dean.*

W. E. TAYLOR, M.D.,

*Professor of Principles and Practice of Surgery.*

A. M. WILDER, M.D.,

*Professor of Ophthalmology and Otology.*

F. B. KANE, M.D., F.R.C.S.I.,

*Professor of Clinical Medicine and Pathology.*

A. L. LENGFELD, M.D.,

*Professor of Materia Medica and Medical Chemistry.*

WM. B. LEWITT, M.D.,

*Professor of Anatomy.*

F. H. TERRILL, A.M., M.D.,

*Professor of Therapeutics.*

BENJ. R. SWAN, M.D.,

*Professor of Diseases of Children.*

O. O. BURGESS, M.D.,

*Adjunct to the Chair of Obstetrics and Gynecology.*

L. A. SABEY, M.D.,

*Curator.*

## COLLEGE DISPENSARY STAFF.

BENJ. SWAN, M.D., *Diseases of Children.*F. H. TERRILL, A.M., M.D., *Syphilis and Diseases of Skin.*C. G. KENYON, M.D., W. B. LEWITT, M.D., *Surgery.*O. O. BURGESS, M.D., *Diseases of Women.*JULES SIMON, M.D., *Nervous Diseases.*LUKE ROBINSON, M.D., M.R.C.P., Eng., *Medicine.*

JOHN G. DAY, M.D.,

*Assistant to the Chair of Anatomy.*

ARNOLD A. D'ANCONA, A.B., M.D.,

*Assistant to the Chair of Physiology.*

WINSLOW ANDERSON, M.D.,

*Assistant to the Chair of Materia Medica and Medical Chemistry.*

HENRY W. DODGE, M.D.,

*Assistant to the Chair of Medical Clinical Medicine and Pathology.*

ROBERT A. McLEAN, M.D., DEAN,

603 Merchant Street, corner Montgomery, San Francisco, Cal.

THE LIBRARY OF THE  
FEB 26 1931  
UNIVERSITY OF ILLINOIS.

## COLLEGE OF PHARMACY.

---

### FACULTY.

WILLIAM T. WENZELL, M.D., PH.G.,

*Professor of Chemistry, 19 Drumm Street,*

EDWARD W. RUNYON, PH.G.,

*Professor of Pharmacy, 529 and 531 Market Street.*

HERMANN H. BEHR, M.D.,

*Professor of Botany, 34 Ellis Street.*

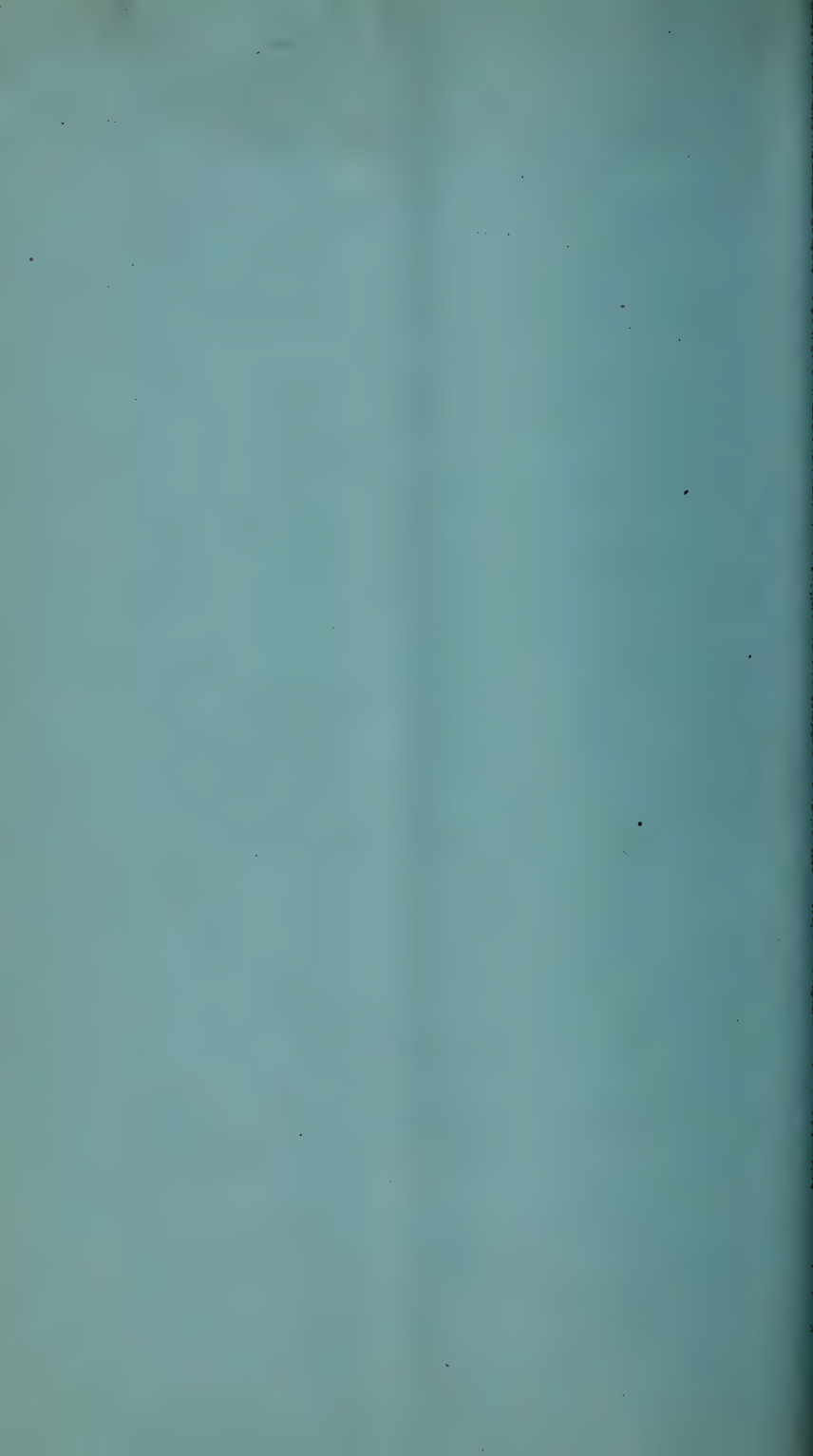
WILLIAM M. SEARBY, PH.G.,

*Professor of Materia Medica and Elementary Botany, and Dean of the Faculty.*

*Office, 859 Market Street, San Francisco.*







ANNOUNCEMENT

OF THE

COLLEGE OF DENTISTRY

OF THE

UNIVERSITY OF CALIFORNIA,

FOR ITS

FIFTH SESSION,

THE LIBRARY OF THE  
FEB 26 1931  
UNIVERSITY OF ILLINOIS.

COMMENCING MARCH 1, 1886,

AND

ENDING NOVEMBER 30, 1886.

---

N. B.—Those who wish to receive the Announcement are requested  
to forward their Names and Addresses to the Dean.

---

SACRAMENTO:

STATE OFFICE, :::: JAMES J. AYERS, SUPT. STATE PRINTING.  
1886.



# ANNOUNCEMENT

OF THE

# COLLEGE OF DENTISTRY

OF THE

UNIVERSITY OF CALIFORNIA,

FOR ITS

FIFTH SESSION,

COMMENCING MARCH 1, 1886,

AND

ENDING NOVEMBER 30, 1886.

---

N. B.—Those who wish to receive the Announcement are requested to forward their Names and Addresses to the Dean.

---

SACRAMENTO:

STATE OFFICE, :::: JAMES J. AYERS, SUPT. STATE PRINTING.

1886.



## CONTENTS.

---

DIRECTORY .....	3
BOARD OF REGENTS .....	4
ACADEMIC SENATE .....	5
FACULTY .....	9
ANNOUNCEMENT .....	10
COMMENCEMENT OF TERM .....	14
SCHEDULE OF STUDY .....	15
REQUIREMENTS FOR ADMISSION .....	15
JUNIOR EXAMINATIONS .....	16
REQUIREMENTS FOR GRADUATION .....	16
FEES .....	17
TEXT-BOOKS .....	17
OUTLINE OF COURSE OF STUDY .....	18
EXAMINATION FOR ADMISSION .....	22
MATRICULATES OF 1885 .....	25
GRADUATES .....	26
COMMENCEMENT EXERCISES .....	27
LITERARY AND SCIENTIFIC DEPARTMENTS .....	28
MEDICAL DEPARTMENT .....	30
PHARMACEUTICAL DEPARTMENT .....	31

## OFFICE DIRECTORY.

---

### IN BERKELEY.

The office of the PRESIDENT is Room No. 2, *North Hall*.

The office of the RECORDER is Room No. 28, *North Hall*.

The office of the SECRETARY OF THE BOARD OF REGENTS is in *South Hall*.

The office of the LAND AGENT is in *South Hall*.

The office of the MANAGER OF THE UNIVERSITY PRINTING PRESS is No. 27, *North Hall*.

---

### IN SAN FRANCISCO.

The office of the DEAN OF THE COLLEGE OF LAW is No. 604 Merchant Street.

Lectures in the COLLEGE OF LAW are delivered in the Assembly Room of the Society of Pioneers, No. 808 Montgomery Street.

The office of the DEAN OF THE MEDICAL FACULTY is No. 603 Merchant Street.

The COLLEGE OF MEDICINE is situated on Stockton Street, between Chestnut and Francisco, in Toland Hall.

The Medical and Surgical Clinics of the COLLEGE OF MEDICINE are held at the City and County Hospital, Twenty-second Street and Potrero Avenue.

The Dispensary Clinics of the COLLEGE OF MEDICINE are held in Toland Hall.

The office of the DEAN OF THE DENTAL FACULTY is No. 131 Post Street.

Lectures in the COLLEGE OF DENTISTRY are delivered in Toland Hall, Stockton Street, between Chestnut and Francisco.

The office of the DEAN OF THE COLLEGE OF PHARMACY is No. 529 Market Street.

The COLLEGE OF PHARMACY is situated at No. 113 Fulton Street, between Polk Street and Van Ness Avenue.

The office of the BOARD OF REGENTS is in Mechanics' Institute Library, 31 Post Street.

The office of the TREASURER of the BOARD OF REGENTS is 310 Sansome Street.

## BOARD OF REGENTS.

---

### EX OFFICIO REGENTS.

HIS EXCELLENCY GEORGE STONEMAN,	- - - - -	SACRAMENTO.
<i>Governor, ex officio President of the Board.</i>		
HIS HONOR JOHN DAGGETT,	- - - - -	OAKLAND.
<i>Lieutenant-Governor.</i>		
HON. W. H. PARKS,	- - - - -	MARYSVILLE.
<i>Speaker of the Assembly.</i>		
HON. W. T. WELCKER,	- - - - -	SACRAMENTO.
<i>State Superintendent of Public Instruction.</i>		
HON. JESSE D. CARR,	- - - - -	SALINAS.
<i>President of the State Agricultural Society.</i>		
P. B. CORNWALL,	-	SOUTHEAST COR. SPEAR AND FOLSOM STS., SAN FRANCISCO.
<i>President of the Mechanics' Institute.</i>		
EDWARD S. HOLDEN, A.M.,	- - - - -	- - - - -
<i>President of the University.</i>		

---

### \*APPOINTED REGENTS.

NAME.	ADDRESS.	TERM EXPIRES.
REV. HORATIO STEBBINS, D.D.,	- - 1609 Larkin St., San Francisco,	- - 1894.
HON. JOHN S. HAGER, A.M., LL.D.,	Palace Hotel, San Francisco,	- - 1894.
HON. J. WEST MARTIN,	- - Union Bank, Oakland,	- - 1898.
HON. JOHN F. SWIFT,	- - 32 O'Farrell St., San Francisco,	- - 1888.
A. S. HALLIDIE, Esq.,	- - 329 Market St., San Francisco,	- - 1892.
HON. JOSEPH W. WINANS, A.M.,	- 604 Merchant St., San Francisco,	- - 1890.
HON. WILLIAM T. WALLACE,	- - 324 Pine St., San Francisco,	- - 1886.
JOHN L. BEARD, A.M.,	- - Centreville,	- - 1892.
HON. A. L. RHODES,	- - 430 California St., San Francisco,	- - 1888.
PROF. WILLIAM ASHBURNER,	- - 1014 Pine St., San Francisco,	- - 1896.
HON. T. GUY PHELPS,	- - Belmont,	- - 1896.
I. W. HELLMAN, Esq.,	- - Los Angeles,	- - 1886.
GEORGE T. MARYE, JR., LL.B.,	- - 234 Montgomery St., San Francisco,	- 1898.
ARTHUR RODGERS, A.B., Ph.B.,	- - 309 Montgomery St., San Francisco,	- 1890.
GEORGE J. AINSWORTH, Ph.B.,	- - North Temescal,	- - 1900.
D. M. DELMAS, A.M.,	- - 327 Pine St., San Francisco,	- - 1900.

Regular meetings of the Board of Regents are held quarterly, viz.: on the first Tuesday in March, September, and December, and on the last Tuesday in May.

---

\* In order of appointment.

## ACADEMIC SENATE.

---

NOTE.—Arranged Alphabetically in each division of Professors, Assistant Professors, Instructors, and Lecturers.

---

EDWARD S. HOLDEN, A.M., - - - - -  
*President of the University, and Director of the Lick Observatory.*

WILLIAM ASHBURNER, - - - - - 1014 Pine St., San Francisco.  
*Honorary Professor of Mining.*

WASHINGTON AYER, M.D., - - - - - 410 Kearny St., San Francisco.  
*Professor of Hygiene.*

HERMANN H. BEHR, M.D., - - - - - 509 Kearny St., San Francisco.  
*Professor of Botany in the College of Pharmacy.*

GEO. WOODBURY BUNNELL, A.M., - - - Cor. Telegraph and Caledonia  
 Avenues, Oakland.  
*Professor of the Greek Language and Literature.*

SAMUEL B. CHRISTY, Ph.B., - - - Piedmont, near Bancroft Way, Berkeley.  
*Professor of Mining and Metallurgy.*

R. BEVERLY COLE, A.M., M.D., M.R.C.S., ENG., 218 Post St., San Francisco.  
*Professor of Obstetrics and Gynecology.*

ALBERT S. COOK, Ph.D., - - - Cor. Dwight Way and Audubon St., Berkeley.  
*Professor of the English Language and Literature.*

GEORGE DAVIDSON, A.M., Ph.D., - - - - - 923 Hyde St., San Francisco.  
*Honorary Professor of Geodesy and Astronomy.*

S. W. DENNIS, M.D., D.D.S., - - - - - 530 Sutter St., San Francisco.  
*Professor of Operative Dentistry and Dental Histology.*

STEPHEN J. FIELD, LL.D., - - - - - Washington, D. C.  
*Honorary Professor of Law.*

M. W. FISH, M.D., - - - - - East Oakland.  
*Professor of Physiology and Microscopy.*

C. L. GODDARD, A.M., D.D.S., - - - - - 131 Post St., San Francisco.  
*Professor of Mechanical Dentistry, and Dean of the Dental Faculty.*

FREDERICK GRAZER, Ph.G., - - - - - 113 Fulton St., San Francisco.  
*Professor of Materia Medica in the College of Pharmacy.*

- S. CLINTON HASTINGS, LL.D., - - - 636 Clay St., San Francisco.  
*Professor of Comparative Jurisprudence.*
- FREDERICK G. HESSE, - - - Cor. Alice and Eleventh Sts., Oakland.  
*Professor of Mechanical Engineering.*
- EUGENE W. HILGARD, PH.D., - Bancroft Way, nr. Audubon St., Berkeley.  
*Professor of Agriculture, Agricultural Chemistry, General and Economic Botany.*
- GEORGE H. HOWISON, A.M., LL.D., - - Ellsworth St., nr. Bancroft Way, Berkeley.  
*Mills Professor of Intellectual and Moral Philosophy and Civil Polity.*
- J. A. HUTTON, 1st Lt. 8th Infantry, U. S. A., - - First Club House, Berkeley.  
*Professor of Military Science and Tactics.*
- F. B. KANE, M.D., M.R.C.S.I., - - - 46 O'Farrell St., San Francisco.  
*Professor of Clinical Medicine and Pathology.*
- MARTIN KELLOGG, A.M., - - - - - Bushnell St., Berkeley.  
*Professor of the Latin Language and Literature.*
- JOHN LeCONTE, M.D., LL.D., - Cor. Dwight Way and Mark St., Berkeley.  
*Professor of Physics.*
- JOSEPH LeCONTE, M.D., LL.D., - - Bancroft Way, nr. Piedmont Ave., Berkeley.  
*Professor of Geology and Natural History.*
- A. L. LENGFELD, M.D., - - - Cor. Stockton and Geary Sts., San Francisco.  
*Professor of Materia Medica and Medical Chemistry.*
- WILLIAM B. LEWITT, M.D., - - - 605 Laguna St., San Francisco.  
*Professor of Anatomy.*
- ROBERT A. McLEAN, M.D., - - - 603 Merchant St., San Francisco.  
*Professor of Clinical and Operative Surgery, and Dean of the Medical Faculty.*
- W. F. McNUTT, M.D., M.R.C.P., EDIN., ETC., 121 Montgomery St., San Francisco.  
*Professor of the Principles and Practice of Medicine.*
- BERNARD MOSES, PH.D., - - - - - Audubon St., Berkeley.  
*Professor of History and Political Economy.*
- H. J. PLOMTEAUX, D.D.S., - - - - 531 Sutter St., San Francisco.  
*Clinical Professor of Mechanical Dentistry.*
- ALBIN PUTZKER, - - - Cor. Humboldt Ave. and Parker St., Berkeley.  
*Professor of the German Language and Literature.*
- WILLARD B. RISING, PH.D., - Cor. Allston and Chapel Sts., Berkeley.  
*Professor of Chemistry.*



EDWARD W. RUNYON, PH.G., - - - 529 Market St., San Francisco.  
*Professor of the Theory and Practice of Pharmacy, and Dean of the Pharmaceutical Faculty.*

G. A. SHURTLEFF, M.D., - - - - - Napa.  
*Emeritus Professor of Mental Diseases and Medical Jurisprudence.*

FRANK SOULÉ, JR. (United States Military Academy), 940 Oak St., Oakland.  
*Professor of Civil Engineering and Astronomy.*

IRVING STRINGHAM, PH.D., - Cor. Piedmont and Bancroft Way, Berkeley.  
*Professor of Mathematics.*

MAURICE J. SULLIVAN, D.D.S., - - - 30 Post St., San Francisco.  
*Clinical Professor of Operative Dentistry.*

BENJ. R. SWAN, M.D., - - - - - 310 Stockton St. San Francisco.  
*Professor of Diseases of Children.*

W. E. TAYLOR, M.D., - - - - - 215 Geary St., San Francisco.  
*Professor of the Principles and Practice of Surgery.*

F. H. TERRILL, A.M., M.D., N. E. Cor. Stockton and Sutter Sts., San Francisco.  
*Professor of Therapeutics.*

WILLIAM T. WENZELL, M.D., - - - 19 Drumm St., San Francisco.  
*Professor of Chemistry in the College of Pharmacy.*

A. M. WILDER, M.D., - - - - - 215 Geary St., San Francisco.  
*Professor of Ophthalmology and Otology.*

JOSEPH W. WINANS, A.M., - - - 604 Merchant St., San Francisco.  
*Dean of the Law Faculty.*

\_\_\_\_\_, - - - - -  
*Agassiz Professor of Oriental Languages and Literature.*

\_\_\_\_\_, - - - - -  
*Professor of Municipal Law.*

\_\_\_\_\_, - - - - -  
*Professor of Mental Diseases and Medical Jurisprudence.*

\_\_\_\_\_, - - - - -  
*Professor of Dental Pathology and Therapeutics.*

JOHN B. CLARKE, PH.B., - - - - - 1736 Thirteenth St., Oakland.  
*Assistant Professor of Mathematics.*

GEORGE C. EDWARDS, PH.B., - - - - - 1568 Webster St., Oakland.  
*Assistant Professor of Mathematics.*

C. B. BRADLEY, A.B., - - - - - 668 Eighteenth St., Oakland.  
*Instructor in English.*

ROSS E. BROWNE,\* - - - - - 518 Eighteenth St., Oakland.  
*Instructor in Mechanical and other Branches of Instrumental Drawing.*

WM. W. DEAMER, A.B., - - Cor. Home and University Aves., Berkeley.  
*Instructor in Latin and Recorder.*

EDWARD LEE GREENE, - - Ellsworth St., near Bancroft Way, Berkeley.  
*Instructor in Botany.*

A. WENDELL JACKSON, JR., PH.B., - - Fourth Club House, Berkeley.  
*Instructor in Mineralogy, Petrography, and Economic Geology.*

HENRY B. JONES, - - - - - North Temescal.  
*Instructor in French.*

WM. CAREY JONES, A.M., - - Bancroft Way, near Dana St., Berkeley.  
*Instructor in United States History and Constitutional Law.*

HERMANN KOWER, C.E., - - - - - 616 Fourteenth St., Oakland.  
*Instructor in Instrumental Drawing.†*

EDMOND C. O'NEILL, PH.B., - - - - - 1403 Chestnut St., Oakland.  
*Instructor in Chemistry.*

WILLIAM G. RAYMOND, C.E., - - Parker St., near Fulton, Berkeley.  
*Instructor in Civil Engineering.*

F. SLATE, JR., - - - - - Audubon St., near Bancroft Way, Berkeley.  
*Superintendent of Physical Laboratory, and Instructor in Physics and Mechanics.*

---

E. J. WICKSON, A.M., - - - Atherton St., near Bancroft Way, Berkeley.  
*Lecturer on Practical Agriculture.*

---

WILLIAM D. ARMES, PH.B., - - Cor. Thirteenth and Brush Sts., Oakland.  
*Assistant in English.*

JAMES P. H. DUNN, B.S., - - - - - Claremont.  
*Assistant in Chemistry.*

---

\* Absent on leave.

† Serving during the absence of Mr. Browne.

# UNIVERSITY OF CALIFORNIA.

## COLLEGE OF DENTISTRY.

TOLAND HALL, CORNER OF STOCKTON AND FRANCISCO STREETS, SAN FRANCISCO,  
CALIFORNIA.

### FACULTY.

E. S. HOLDEN, A.M., *President of the University, and ex officio President of the Faculty.*

JOSEPH LE CONTE, M.D., LL.D., *Honorary Professor of Biology.*

S. W. DENNIS, M.D., D.D.S., *Professor of Operative Dentistry, and Dental Histology.*

C. L. GODDARD, A.M., D.D.S., *Dean and Professor of Mechanical Dentistry.*

M. W. FISH, M.D., *Professor of Physiology.*

W. E. TAYLOR, M.D., *Professor of the Principles and Practice of Surgery.*

A. L. LENGFELD, M.D., *Professor of Chemistry and Materia Medica.*

WM. B. LEWITT, M.D., *Professor of Anatomy.*

MAURICE J. SULLIVAN, D.D.S., *Clinical Professor of Operative Dentistry.*

H. J. PLOMTEAUX, D.D.S., *Clinical Professor of Mechanical Dentistry.*

———, *Professor of Pathology and Therapeutics.*

### DEMONSTRATORS.

J. SCHNEIDER, D.D.S., *Demonstrator of Operative Dentistry.*

CHARLES BOXTON, D.D.S., M. F. GABBS, D.D.S., *Demonstrators of Mechanical Dentistry.*

JOHN G. DAY, M.D., *Demonstrator of Anatomy.*

ARNOLD A. D'ANCONA, A.B., M.D., *Assistant to the Chair of Physiology.*

WINSLOW ANDERSON, M.D., *Assistant to the Chair of Materia Medica and Medical Chemistry.*

### CLINICAL INSTRUCTORS.

J. L. ASAY, M.D. .... Visalia, California.

C. F. W. BOEDECKER, M.D., D.D.S. .... New York.

H. C. DAVIS, L.D.S. .... San Francisco.

L. L. DUNBAR, D.D.S. .... San Francisco.

B. W. HAINES, M.D., D.D.S. .... San Francisco.

J. H. HATCH, D.D.S. .... San Francisco.

W. B. KINGSBURY .... Santa Clara, California.

A. F. McLAIN, M.D., D.D.S. .... Santa Rosa, California.

THOS. MORFEW, D.D.S. .... San Francisco.

W. E. PRICE, D.D.S. .... San Francisco.

JNO. RABE, D.D.S. .... Oakland, California.

MAX. SICHEL .... San Francisco.

J. L. WILLIAMS, D.D.S. .... New Haven, Connecticut.

C. L. GODDARD, Dean,

131 Post Street, San Francisco.

## ANNOUNCEMENT.

### DENTAL DEPARTMENT.

On March 1, 1886, the Dental Department of the University of California commences its fifth annual session. It will close November 30, 1886, making a continuous term of nine months.

From the organization of the College of Dentistry it has been the aim of its founders to make a place for it among the leading institutions of a similar character in the United States and Europe. To attain this object, it has been necessary to adopt a progressive curriculum. Thus far the record of the College has been in accordance with the original design. When vacancies occurred or new positions were created by the Faculty, members of the Profession were chosen to fill them who had expressed themselves as against regressive movements, and in favor of the highest possible standard of dental education.

We think a brief history of the rise and progress of the Dental Department of the University of California will not be out of place here, nor uninteresting. It was the second Dental College in the United States to adopt a nine months' term, and the third to require a preliminary examination for admission, or rather to state the nature of that examination. At the outset, and in accordance with the custom adopted by similar institutions of learning, the Faculty determined to offer every opportunity and facility to those members of the profession who had had seven years or more of practical experience, but who had not enjoyed the advantages of a collegiate course. This was done, not only that they might better qualify themselves for their professional labors, but that they might also attain the rank among their professional fellows which is so commendable and desirable to all men of laudable ambition, professional and intellectual pride.

The first announcement (that of 1882) gave notice, that after the first year a preliminary examination would be required for admission; and that all matriculates prior to the beginning of the next course—June 1, 1883—could enter without undergoing that examination. In the announcement of 1883, notice was also given, that in 1884 the Faculty would adopt a nine months' term. Further notice was given, in the same announcement, that students would be required to subscribe to Article II, Section 3, of the Code of Ethics of the American Dental Association; and that on and after 1886 three years of study, including attendance upon two courses of lectures, would be required for graduation in the Dental Department of the University of California. The Faculty, having already determined to require of graduates of medicine one full year of study in this College, before applying for the degree of Doctor of Dental Surgery, gave notice that after the session of 1885, graduates of medicine would be required to have two years of practical instruction in Dentistry, one year of which, including one course of lectures, must be spent in the Dental Department of the University of California, in order to receive the degree of Doctor of Dental Surgery. Students in this College are required to subscribe to the



Code of Ethics, that they may know what is considered unprofessional, and to prevent them during their studentship from violating ethical principles, which they will be required to observe after they have legitimately entered the profession. Students are required to attend seventy-five per cent of the lectures in their junior year in order to enter the senior class. Senior students are required to attend seventy-five per cent of the lectures, also, during their senior year before they will be permitted to apply for graduation.

The Faculty is more than satisfied with the result of the advanced standard and increased term. It is well known that the former has and will deter some from entering our College, and cause them to go elsewhere; but it is also known that those who do apply and are admitted will have nothing to regret when they have attained the degree of Doctor of Dental Surgery from the University of California.

The plan of a nine-months' term gives longer time for study, more time for practical instruction, and less *crowding* of both. We are glad to be able to say that the more intelligent students, and those actuated by the best motives, favor the step in advance.

At a meeting held November 5, 1884, a resolution was unanimously adopted by the Academic Senate of the University of California, which provides that the Colleges of Medicine, Pharmacy, and Dentistry may have a free course of lectures at Berkeley, consisting of Botany, systematic and structural; Comparative Anatomy and Physiology; Biology, with laboratory training; Organic and Inorganic Chemistry, with laboratory work; Microscopic Technology, and Physiological and Pathological Histology; Physics, with laboratory work, and Freehand Drawing. This course is not compulsory, but students who take the three-years' course of study in the Dental Department may have the privilege of spending as much of either the first or second year of the three devoted to the study of Dentistry as they may desire, in taking this course at Berkeley, for which they will be accredited the same as though they spent their whole time at the College of Dentistry. Through this wise and liberal action of the Academic Senate, the opportunity is provided for those students of intellectual capacity and professional ambition to attain that technical knowledge and practical laboratory training and experience so necessary to the scientific investigation of the ætiology of disease. It is well known that but few dental or medical students, or even practitioners, have much knowledge of Histology or Microscopic Technology. When this is the case with a student it is impossible for him to comprehend anything he may hear upon the subject, or to observe the histological relations of normal and abnormal organic tissues. With the advantage of the special course at Berkeley, the students in the Dental Department of the University of California are enabled to carry their studies to whatever extent they may elect—free.

Joseph LeConte, M.D., LL.D., Honorary Professor of Biology, will deliver a special course upon that subject before the class. His eminent ability as a scholar and lecturer cannot help attracting the attention of the scientific men in our profession to the dignity of the school, and the character of its curriculum, as well as making a marked impression on the discipline and culture of the classes.

The College is beautifully situated, well ventilated and lighted, and admirably constructed and arranged for the work in hand. There is always an abundance



of clinical material, both operative and mechanical, as well as pathological, drawn from a heterogeneous population of between 250,000 and 300,000. There are nine Professors in the College—seven didactic and two clinical—besides a corps of able and earnest demonstrators, both operative and mechanical. The Didactic Professors deliver two lectures per week, each, as will be seen, on the schedule of instruction.

The Clinical Professor, in the Operative Department, devotes two half days per week to the practical consideration and demonstration of the principles taught from the Didactic Chair; and the Clinical Professor of Mechanical Dentistry devotes seven hours per week to his department, and there are demonstrators always present during clinic hours. Wednesday afternoon of each week is set apart for clinical instructors, and they are arranged upon the schedule in alphabetical order, and two or more are required to operate each week according to schedule, during the term.

In consideration of the elevated plane of our course, we feel that the profession and the people have nothing to regret in the establishment of this Dental College among us; and the graduates of it will have nothing to fear when they are brought into intellectual and professional competition with graduates of other colleges or non-graduates.

Let us once more express our thanks for the support which we have received from the University, Medical and Dental professions, and the people, and hope that at no very distant day there will be one united effort for the promotion of the work in which the Faculty is engaged.

For the benefit of those who have not seen former announcements, and who may be interested in the origin, character, and dignity of the Dental Department of the University of California, we give the following brief history:

The Medical Department of the University, through a majority of the members of its Faculty, sent a communication to the Board of Regents, May 28, 1881, recommending that a Dental Department be established in connection with the Medical, recognizing that dentistry was an important collateral branch of medical science; that dental education was necessary for the public good, and that it could be best acquired in connection with a medical department, following the example of several Eastern universities. The communication offered lecture and clinic room to the proposed Dental Department, free of expense, and indorsed appointments that had already been made by the Board of Regents for a Dental Department which, owing to well known circumstances, had not succeeded in perfecting its organization.

This communication was referred, by the Board of Regents, to the Committee on Instruction and Visitation, which reported their approval of the petition, August 1, 1881, and recommended a committee be appointed to confer with the Dean of the Medical Faculty, and report a plan of organization.

On the seventh of September, 1881, the Board of Regents adopted a report of this committee, and thus established a Dental Department in connection with the Medical Department, created seven professorships for the same, and made the following appointments, viz.:

S. W. Dennis, M.D., D.D.S., Professor of the Principles and Practice of Operative Dentistry (reappointed).

A. F. McLain, M.D., D.D.S., Professor of Dental Pathology and Therapeutics (reappointed).

C. L. Goddard, A.M., D.D.S., Professor of Dental Art and Mechanism.

M. W. Fish, M.D., Professor of Physiology.

A. W. Perry, M.D., Professor of Chemistry.

Wm. Lewitt, M.D., Professor of Anatomy.

W. E. Taylor, M.D., Professor of Surgery.

The last four already held the same positions in the Medical Department.

The Faculty thus appointed met according to instructions from the Board of Regents, adopted by-laws, arranged the details of the new institution, appointed Demonstrators and Clinical Instructors, solicited subscriptions, and purchased the necessary equipment.

As no financial aid or support was given by the State, and the amount of subscription was small, the Faculty had to depend upon the fees of students for providing necessary equipment and maintaining the college after it was established.

The Board of Regents of the University of California, in conjunction with the Medical Faculty thereof, instituted and organized this department as an integral part of the State University, and for the following reasons, namely:

*First*—In deference to the opinions so often expressed by the profession and the people, individually and collectively, in favor of a Dental College, as a much desired object and public necessity.

*Second*—From a desire to comply with the public wants and requirements by enlarging the opportunities and facilities for both general and special culture in the University of California and upon the Pacific Coast.

*Third*—Recognizing the importance and beneficence which the art and science of dental surgery, as a collateral branch of medicine, bears upon the health and comfort of the human family.

*Fourth*—Appreciating the necessity for the proper training and instruction of those who propose to assume the important duties and responsibilities of this profession.

*Fifth*—Recognizing the great extent of territory embraced in the Pacific Slope, and knowing the wide belt of country without educational facilities connecting the Pacific States and Territories with the Atlantic States.

*Sixth*—From a desire to relieve those who wish to acquire a dental education from the anxieties, cares, and great expense incident to so long a journey and stay as were necessary to acquire a thorough professional training, or knowledge sufficient to command public confidence and meet their requirements.

We would further state, that the great progress of Dentistry has given it rank among the liberal professions, and that rank and progress can be maintained in the future only by liberal studies.

In accordance with the petition already submitted, the Dental Department of the University of California will be accommodated in the Medical Hall of the University, ample provision having been made for lecture and clinic room, through the generous offer of the Medical Faculty.

All instruction from the Medical Chairs, utilized in the Dental Department, will be given to students in Dentistry conjointly with that given to the medical students, and the dental instruction will be separate, but all under the same roof.

We submit the following extract from the announcement of the Medical

Department of the University of California, for the consideration of those who contemplate taking a dental course:

"While the several other Colleges of the State University are clustered at Berkeley, its Medical Department is, for convenience of clinical study, conducted wholly, or almost wholly, in San Francisco. The advantages for demonstrative teaching presented by a seaport city of nearly 300,000 inhabitants will be recognized as almost unbounded.

"The main lecture hall of the college is capable of seating 500 persons. The clinical amphitheater is about equally capacious.

"The museum contains an extensive collection of specimens and preparations.

"The dissecting room is fitted up with all the modern improvements.

"The laboratory is replete with all chemicals and apparatus necessary for practical teaching.

"A suite of apartments in the building is set apart for the dispensary clinics."

There are two large and convenient dental operating rooms, with windows of extra width and height, thus giving light that is unsurpassed. They are furnished with both Morrison, Archer, and Cycloid chairs, and handsome operating stands, which will be assigned to students in the order of their matriculation. The laboratory is commodious, and furnished with benches, lathes, furnaces for melting, forge, rolling mill, continuous-gum furnaces, and all other requisites for thorough work. Each student is required to furnish his own instruments and tools, and will be provided with a separate drawer in which they can be securely locked; also with a separate bench, provided with gas for heating purposes.

Those who have laboratory tools and appliances should bring them; those who have not are advised to defer purchasing till they arrive. Lists will be furnished when desired. During the hours devoted to mechanical dentistry, the clinical Professor or competent demonstrators will be present to assign patients to students, and superintend and assist them in their operations.

Both the Medical and Dental Departments of the University of California, *unlike corresponding Colleges of the Eastern States*, have their regular term in the Spring and Summer.

#### SESSION OF 1886.

Term commences March 1, 1886, and closes November 30, 1886.

**SCHEDULE OF STUDY.**  
**ORDER OF LECTURES AND CLINICS.\***

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.
9 A. M. till 10 A. M.	CLINIC, 9 to 11, Operative Dentistry, Dr. SCHNEIDER.	CLINIC, 9 to 12, Operative Dentistry, Dr. SCHNEIDER.	CLINIC, 9 to 11, Operative Dentistry, Prof. SULLIVAN.	CLINIC, 9 to 12, Operative Dentistry, Dr. SCHNEIDER.	CLINIC, 9 to 11, Operative Dentistry, Prof. SULLIVAN.
10 A. M. till 11 A. M.					
11 A. M. till 12 M.	LECTURE, Chemistry, Prof. LENGFELD.		LECTURE, Surgery, Prof. TAYLOR.		LECTURE, Surgery, Prof. TAYLOR.
12 M. till 1 P. M.	CLINIC, 12 to 4, Mechanical Dentistry, Dr. BOSTON.	CLINIC, 12 to 3, Mechanical Dentistry, Prof. PLOMTEAUX.	LECTURE, Chemistry, Prof. LENGFELD.	CLINIC, 12 to 3, Mechanical Dentistry, Prof. PLOMTEAUX.	CLINIC, 12 to 4, Mechanical Dentistry, Dr. GABBS.
1 P. M. till 2 P. M.					
2 P. M. till 3 P. M.		LECTURE, Physiology, Prof. FISH.	CLINICAL INSTRUCTORS, from 2 to 6.	LECTURE, Physiology, Prof. FISH.	
3 P. M. till 4 P. M.		LECTURE, Anatomy, Prof. LEWITT.		LECTURE, Anatomy, Prof. LEWITT.	
4 P. M. till 5 P. M.	LECTURE, Mechanical Dentistry, Prof. GODDARD.			DISSECTING.	LECTURE, Mechanical Dentistry, Prof. GODDARD.
5 P. M. till 6 P. M.	LECTURE, Operative Dentistry, Prof. DENNIS.	DISSECTING.			LECTURE, Operative Dentistry, Prof. DENNIS.
SATURDAY, from 9 A. M. to 12 M. HOSPITAL CLINICS, MEDICAL and SURGICAL.			SATURDAY, from 1 to 6 P. M., CHEMICAL AND HISTOLOGICAL LABORATORY.		

\*Didactic Chairs printed horizontally and the Clinical Chairs vertically.

**REQUIREMENTS FOR ADMISSION.**

Every candidate for admission must be eighteen years of age, must present to the Faculty satisfactory evidence of a good moral character, and must be examined as to his previous education and fitness to appreciate the technical study of Dentistry. The examinations will be chiefly in writing, and will embrace the following subjects, viz.:

1. Arithmetic.
2. Geography.
3. English Grammar and Composition.
4. United States History.
5. Natural Philosophy. (Refer to Avery's Natural Philosophy, Peck's Ganot's Introductory Course in Natural Philosophy, or an equivalent.)
6. After January 1, 1887, in addition to the above subjects an examination will be required in Elementary Chemistry. (Refer to Mead's Chemical Primer, Elliot and Storer's Chemistry, Avery's Chemistry, or an equivalent.)



He shall subscribe to Article II, Section 3, of the Code of Ethics of the American Dental Association.\*

No matriculation examination will be required of those who have passed the entrance examination of the University of California or of any other recognized college or university, nor of graduates of any recognized academy or high-school, nor of those holding teachers' certificates.

In order to secure a release from this examination, the candidate must present his diploma or certificate of examination or graduation.

The preliminary examination for the Session of 1886 will be held in San Francisco, at the College building (Toland Hall), Stockton Street, near Francisco, Saturday, February twenty-seventh, at 9 o'clock A. M. Students desiring to present themselves at this examination will please call previously at the office of the Dean, 131 Post Street.

For further information see page 22.

---

### JUNIOR EXAMINATIONS.

At the end of the Junior year students will be examined in Anatomy, Physiology, Chemistry, Histology, and Mechanical Dentistry, and those who are qualified will receive certificates of admission to the Senior Class.

---

### REQUIREMENTS FOR GRADUATION.

The candidate for the degree of Doctor of Dental Surgery must have attained the age of twenty-one years, and be of good moral character.

He shall have passed a satisfactory examination, both oral and written.

He shall have studied Dentistry three years, including the time spent in attending lectures.

He shall have attended two full courses in the Dental Department of the University of California, or one year in some other reputable Dental College, and the second or last in this college.

He shall again subscribe to Article II, Section 3, of the Code of Ethics of the American Dental Association.

He *may* write an original thesis upon some subject pertaining to Dentistry or Medicine.

The written examination is required in lieu of a thesis.

The candidate is required to dissect at least two parts. He must treat thoroughly some patient requiring all the usual dental operations, and bring such patient before the Professors of Operative Dentistry and Pathology and Therapeutics. He must also take up at least one artificial case, and, after it is completed, bring his patient before the Professor of Mechanical Dentistry at least thirty days before the close of the term. He must also prepare a specimen case, to be deposited in the college collection, and present the same to the Professor of Mechanical Dentistry before the first of November. The operating

---

\* N. B. The object of this requirement is to prevent students from committing unprofessional acts during their collegiate course.



must be performed, and the work on the artificial cases done, at the college building, and exclusively by the applicant for the degree.

Graduates in medicine may apply for the Degree of Doctor of Dental Surgery after having had two full years of practical instruction or experience in dentistry, one year of which, including one course of lectures, must be spent in the Dental Department of the University of California.

After these requirements have been complied with, upon the recommendation of the Faculty and approval of the Board of Regents, the candidate shall receive the Degree of Doctor of Dental Surgery.

Students who have had no office instruction before attending lectures are advised to attend three courses. No fees will be required for the third course, except that of the Demonstrator of Anatomy.

---

#### FEES.

The Matriculation Fee will be (paid once) .....	\$5 00
Tuition.....	120 00
Demonstrator of Anatomy's Fee.....	10 00
Diploma Fee.....	30 00

---

#### TEXT-BOOKS.\*

ANATOMY—*Gray, Quain, or Holden.*

DENTAL ANATOMY—*Tomes.*

PHYSIOLOGY—*Dalton, or Flint.*

HISTOLOGY—*Stricker, Frey, Beal, or Wythe.*

PATHOLOGY—*Wagner.*

DENTAL PATHOLOGY—*Wedl.*

ORAL SURGERY—*Garretson.*

OPERATIVE DENTISTRY—*Taft, or Harris.*

MECHANICAL DENTISTRY—*Richardson, or Harris.*

ORAL DEFORMITIES—*Kingsley.*

DENTAL METALLURGY—*Essig.*

MICROSCOPICAL MORPHOLOGY—*Heitzman.*

CHEMISTRY—*Lloyd, or Bartley.*

THERAPEUTICS—*Wood, Biddle, or Bartholow.*

SURGERY—*Ashurst, or Bryant.*

MEDICAL DICTIONARY—*Dunglison.*

DENTAL DICTIONARY—*Harris.*

MATERIA MEDICA—*U. S. Pharmacopœia.*

DENTAL MATERIA MEDICA AND THERAPEUTICS—*Gorgas, or Stockens.*

---

\*When "or" is used between authors, students may choose either.

## OUTLINE OF THE COURSE OF STUDY.

---

### BIOLOGY.

Professor Joseph LeConte will deliver a series of lectures on the Correlation of Vital with Physical and Chemical Forces; also upon the Homologies of the Vertebrate Skeletons.

---

### PRINCIPLES AND PRACTICE OF OPERATIVE DENTISTRY, DENTAL HISTOLOGY, AND DENTAL PATHOLOGY.

It will be the aim of the incumbent of this Chair, as it is the object of it, to give a comprehensive course upon all of the principles underlying this branch of Dental Science. The means and methods at present used in practice will be fully considered; also, a comparison will be made of the present and former systems of operating.

The intra and extra uterine development of the teeth will be fully dwelt upon, from the inception to the shedding of the temporary or deciduous set, on to the full and complete eruption of the permanent set, and their final loss.

The topographical and general, as well as the minute or histological anatomy of the teeth, will be fully illustrated.

The Principles of the Microscope, and the application of them to the study of the laws of life, health, and disease, will demand a share of his attention. A portion of his time will be devoted to Dental Pathology.

The Principles and Practice of Operative Dentistry embrace so much, that the Lecturer from this Chair may necessarily encroach upon the field of several others; but should this be the case, it will be only the outgrowth of a desire to make the course as instructive, and interesting, and comprehensive as possible.

---

### MECHANICAL DENTISTRY.

The instruction in Mechanical Dentistry will embrace everything necessary to enable the dentist successfully to supply substitutes for lost dental organs.

Special reference will be made to the principles involved in the restoration of the natural functions of the teeth, namely: mastication, enunciation, and expression of the features, keeping in view always the health and the future usefulness of the living parts.

The construction of artificial dentures on both plastic and metallic bases will be thoroughly explained and illustrated, and the advantages and disadvantages of the different bases will be carefully studied.

Instruction in Dental Metallurgy will include lectures on the various metals used in the laboratory and as bases for artificial dentures, and especially the alloying and refining gold and silver.

The various mechanical means employed in correcting irregularities will be explained and illustrated by means of a large number of drawings, appliances, and casts of practical cases.

---

### PHYSIOLOGY.

The lectures in this department, by Professor Fish, embrace a consideration of both General and Special Physiology, including all that has been developed up to the present time, and are illustrated by the largest and most complete series of colored drawings in the United States, prepared exclusively for these lectures; besides which, the vast collection of preparations and drawings of the Scientific Department at Berkeley are at the command of the Professor. Vivisections are practiced when necessary to demonstrate principles, and the microscope is freely used for illustrating important facts and principles.

---

### SURGERY.

Professor Taylor delivers two lectures each week on the Art and Science of Surgery. The more recent views on the management of surgical conditions, and the appliances devised for their relief, are particularly dwelt upon, and illustrated with drawings and models when necessary. This course will include a series of lectures upon Operative Surgery, with demonstrations on the cadaver. The student will be drilled in the manipulation of instruments used in the various operations.

In addition to his usual course of lectures on surgery, he will pay particular attention to surgical diseases, and injuries of the head, face, jaws, and mouth.

---

### CHEMISTRY AND MATERIA MEDICA.

Professor Lengfeld will spare no effort to make the course in Chemistry and Materia Medica thoroughly practical and instructive. All important principles are illustrated by means of suitable philosophical, chemical, and other apparatus, and facts and theories are presented in a clear and comprehensive manner.

Special attention will be given to Prescription Writing, Urinary and Salivary Analysis and Toxicology, and to the nature, origin, physical, and chemical properties of the various remedies official in the United States Pharmacopœia.

Dr. Winslow Anderson, assistant to the chair of Materia Medica and Medical Chemistry, will conduct the Laboratory investigations including qualitative analysis and recitations, at least two hours each week during the term.

---

### ANATOMY.

Professor W. B. Lewitt's lectures on anatomy are illustrated fully by the cadaver, and by both wet and dry preparations, models, manikins, and drawings, and include a course on general, special, and topographical anatomy, thus

preparing the student for active surgical practice, as well as giving him a thorough knowledge of the relation of organs. Before each lecture a short examination is held on the subject of the preceding lecture.

---

### THE DENTAL LABORATORY.

The Dental Laboratory will be in charge of the Clinical Professor of Mechanical Dentistry, who will assign patients to students, and give practical instruction in preparing the mouth for the insertion of artificial teeth, taking impressions, selecting and arranging teeth, and the construction of artificial dentures on bases of vulcanite, celluloid, silver, gold, etc.; also in alloying, refining, and preparing the metals for use. Special attention will be given to continuous gum work. On account of the length of the term the opportunities for practice in correcting irregularities of the teeth will be unsurpassed, and will receive their share of attention.

---

### DENTAL INFIRMARY.

The Operating Department will be under the immediate supervision of the Clinical Professor of Operative Dentistry.

The rooms will be open during the forenoon of Monday, Tuesday, Wednesday, Thursday, and Friday, when all practical matters pertaining to Operative Dentistry will be fully dealt with by the incumbent of this Chair and the Assistant Demonstrators, one of whom will always be present—the Clinical Professor two half days out of five. As there is always an excess of clinical material on hand, and there are six hundred and forty-eight hours, per term (including three hours each Wednesday afternoon), devoted to the practical consideration of diseases of the teeth, and the adjacent parts, it is not difficult to estimate the advantages the students have in this department.

---

### PATHOLOGY AND THERAPEUTICS.

The lectures delivered by the incumbent of this Chair will embrace a full and comprehensive course on the following topics:

1. GENERAL PATHOLOGY—In which will be discussed those general aspects of disease with which it is necessary to be acquainted, in order to be able to understand the nature of any departure from health; causes of disease, symptoms, diagnosis, prognosis, temperaments, pathology of anæsthetics, irritation, determination, congestion, inflammation and its terminations:—effusion, supuration, ulceration, gangrene, sloughing, morbid growths, etc.

2. SPECIAL PATHOLOGY—In which a critical examination will be made into the special causes of dental decay; dental hygiene and prophylaxis; disease of the enamel—of the dentine; diseases of the dentinal pulp—together with the causes of alveolar abscess—its stages and results; exostosis of the roots and alveoli; necrosis and exfoliation; disease of the antrum; tumors, benign and malignant diseases of the mucous membranes.



Neuralgia and other nervous affections will receive such attention as their importance may demand, and, besides, there will be presented such other special diseases as may in any degree be of interest to the Dental Practitioner, such as scurvy, scrofula, rachitis, and other diseases of the bones.

3. GENERAL PRINCIPLES OF THERAPEUTICS—Under which head the general application of medicines will be noticed—their action, constitutional and topical.

4. SPECIAL THERAPEUTICS—In connection with Dental Materia Medica, as incidentally related thereto.

---

### **PRACTICAL ANATOMY.**

The dissecting-room of the University is spacious, well ventilated, well lighted from above, and provided with every convenience. It is open throughout the year under the superintendence of the Professor of Anatomy and the Demonstrator of Anatomy. A full supply of material is always procurable at small cost, and is thoroughly preserved from decomposition. When the dissections are conducted in a diligent manner, the student is furnished by the Demonstrator with certificates stating the amount and part dissected. The Dissecting Ticket (\$10) is good for the whole year, from January first to December thirty-first.

---

### **CLINICAL INSTRUCTION.**

During the course, Wednesday afternoons will be devoted to clinical lectures and operations by the Professors and Clinical Instructors.

---

### **HOSPITALS.**

All students in Dentistry will have all the facilities and opportunities enjoyed by the medical students in hospital practice and observation. They will have the freedom, as above represented, of the City and County Hospital, City Receiving Hospital, and San Francisco Female Hospital.

Medical and Surgical clinical lectures are given by the Professors of the Medical Department of the City and County Hospital, Tuesdays, Thursdays, and Saturdays, from 9 to 11 A. M.

For further particulars on this subject, see Medical Department Announcement.

---

### **LIBRARY AND MUSEUM.**

A nucleus has been formed from which it is hoped a large library and museum will grow. All members and friends of the profession are invited to contribute books, pamphlets and journals, charts, anatomical, physiological, and pathological specimens, casts of deformities, and irregularities of the teeth and associate parts, or anything that will be useful or instructive.



These contributions will be placed in the library and museum, and marked with the name of the donor if desired.

C. L. GODDARD, Dean of the Faculty,  
131 Post Street, San Francisco, Cal.

N. B.—BOARDING. The expense of living in the City of San Francisco is very reasonable. Good board, with room rent, may now be procured at the low rate of \$5 per week, at a convenient distance from the College building. There is a free Public Library in San Francisco, of which students may have full benefit.

---

### EXAMINATION FOR ADMISSION

Inquiry having so frequently been made concerning the examination for admission to this college, it is deemed well to append the following questions as samples of those given here and at some of the Eastern Colleges. The answers to these are required in writing; in some instances an oral examination is also made. It is quite probable that each year a little advance will be made in the character of these examinations. See requirements for admission on page 15.

Write your name in full.

Give date of birth: Day, month, year.

Where do you now reside? Town, county, State.

Where were you born? Town, county, State.

What educational advantages have you had? Name the schools you have attended and the time spent in each?

What branches have you studied, and to what extent have you pursued them?

In what occupation have you been engaged other than that of student, and how long were you thus employed?

When did you commence studying dentistry? Month, year.

How many months of actual medical and dental study have you had to date?

Have you attended a full course at any medical or dental school? If so, where and when?

With what preceptor or preceptors have you studied? Give name and present residence.

Sign your name in full.

---

Write an English composition, of at least two hundred words, upon a subject of the examiner's selection.

---

How are thoughts communicated?

How many kinds of words are there?

How are words classified?

What relation do they sustain to each other?

What are the leading words of a language?

What is a noun?

What is a verb?

What is the significance of each?

Do you read or speak any other language than English? If so, to what extent?

Give the synonyms and definitions of the following words:

Abandon, abject, abdicate, abtruse, aggregate, austere, convulse, criterion, cynical, dupe, elucidate, eliminate, fair, hectic, poignant, propitious, quiescence, truculent, trepidation, utter, virago, weazen.

---

What is geography?

What are the natural features and divisions of the earth's surface?

What are the artificial divisions?

How, by whom, and for what purpose are artificial divisions made?

What is the equator?

What is latitude?

What is longitude?

From what place is latitude reckoned?

What is the ecliptic?

What are the principal countries of Europe?

Where is Cape Horn?

Where is the Cape of Good Hope?

Give the name, location, and length of the three longest rivers in the world.

What nation possesses and occupies the greatest extent of territory?

---

What are the three principal forms of government among the nations of the world?

Give an example of each.

What was the cause of the Revolutionary War?

What are the three chief divisions or departments of the government of the United States?

What are the principal officers of each?

Where was the first English Colony successfully planted in North America?

How many States and Territories in the United States?

How many inhabitants must a Territory contain before it can become a State?

From what nations did the present people of Great Britain, Scotland, and Ireland chiefly come?

---

What is mathematics?

What are the primary or fundamental rules of arithmetic?

Give the table of troy weight.

Give the table of long measure.

What is a common or vulgar fraction?

What is a decimal fraction?

Reduce  $6\frac{3}{4}$  to a decimal fraction.

What is the length of the equator in yards, allowing  $69\frac{1}{2}$  miles to a degree?

What is a cube?

What is the difference between simple and compound interest?

What is the interest of \$68.25 for 8 months and 24 days, at 6 per cent per annum?

How many grains are there in 6 troy pounds?

Add  $\left\{ \begin{array}{llll} 14\text{lbs.} & 10\text{oz.} & 19\text{dwt.} & 21\text{grs.} \\ 7 \text{ " } & 11 \text{ " } & 12 \text{ " } & 5 \text{ " } \\ 18 \text{ " } & 2 \text{ " } & 4 \text{ " } & 20 \text{ " } \\ 5 \text{ " } & 0 \text{ " } & 8 \text{ " } & 14 \text{ " } \end{array} \right.$

Find the fourth term in this proportion—2:9::24:

---

What is the attraction of gravitation?

What is capillary attraction, and how does it vary?

Define adhesion and cohesion.

What is malleability?

Define a solid, a liquid, and a gas.

What is a lever?

Describe the air pump.

What is a magnet?

What is meant by the fusing point?

What is the difference between a Fahrenheit and a centigrade thermometer?

What effect is produced by heating water above its boiling point in a closed vessel?

What is a lens? Describe the difference between a convex and a concave lens.

## MATRICULATES OF 1885.

---

STUDENT.	RESIDENCE.	PRECEPTOR.
Burnett, Isaac G.	San Francisco, Cal.	University of California.
Bettis, Harry Sylvester	San Francisco, Cal.	L. L. Dunbar, D.D.S.
Botsford, George	Campbellton, Canada	University of California.
Coulson, Nathaniel Thomas	Cornwall, England	B. Beers.
Cate, Daniel Barratt	Quincy, Cal.	S. F. Cate, M.D.
Carlton, Harry Putnam	Oakland, Cal.	C. L. Goddard, A.M., D.D.S.
Couret, Hector Ludovic	Sonora, Mexico	S. W. Dennis, M.D., D.D.S.
Dunn, Martin Joseph	Oakland, Cal.	University of California.
Drucker, George Ihmer	San Francisco, Cal.	J. S. Knowlton.
Fitzpatrick, William Ellis	Empire City, Nevada	University of California.
Fitzgerald, Calvin Ezra	Greenville, Ohio	J. J. Little, D.D.S.
Givovich, Nicholas Anton	Ragusa, Austria	M. Givovich.
Gunzburger, Benjamin Mitchell	San Francisco, Cal.	University of California.
Henderson, Walter Robert	Stockton, Cal.	R. W. Henderson.
Humphrey, John Gow	San Francisco, Cal.	
Holmes, Clarence Adelbert	Mendocino City, Cal.	T. H. Whipple.
Hoover, William A.	Greenville, Ohio	J. J. Little, D.D.S.
Hodgen, Joseph Dupuy	Woodland, Cal.	I. N. Hodgen.
Hutton, John Adams Douglas	San José, Cal.	University of California.
Jones, Harold McKean	Cloverdale, Cal.	University of California.
Morris, Thomas Harvey	Oakland, Cal.	C. S. Lane.
McCargor, Philander	Ottawa, Canada	A. McFadyen, D.D.S.
Post, Charles Edgar	San Francisco, Cal.	L. Van Orden, M.D.
Pancoast, Franklin	San Francisco, Cal.	C. W. Decker.
Rodolph, Charles Theodore	Oakland, Cal.	J. H. Hatch, D.D.S.
Rodolph, George Walter	Oakland, Cal.	University of California.
Regensburger, Arthur Theodore	San Francisco, Cal.	
Rowand, Joseph Terapin	Camden, N. J.	B. W. Haines, M.D., D.D.S.
Reith, William Cormack	Sacramento, Cal.	William Wood.
Sylvester, Henry, Jr.	San Francisco, Cal.	E. O. Cochrane, D.D.S.
Schneider, Joseph	Vallejo, Cal.	H. J. Plomteaux, D.D.S.
Saxe, Frederick Judson, A.M.	Santa Clara, Cal.	William B. Kingsbury.
Simmons, Benjamin Franklin	Oakland, Cal.	W. H. Simmons, D.D.S.
Sand, Joseph Emil	San Francisco, Cal.	C. W. Decker.
Sylvester, William	San Francisco, Cal.	E. O. Cochrane, D.D.S.
Stuttmeister, William Oltman	Oakland, Cal.	J. W. Edwards.
Stewart, Robert	Arora, Canada	A. McFadyen, D.D.S.

## GRADUATES.

---

1882.

Thomas Watson Hall.....	Oakland, California.
Charles Wesley Hibbard.....	San Francisco, California.
Thomas Morffew.....	San Francisco, California.
Henry John Plomteaux.....	San Francisco, California.
Charles Wesley Richards.....	San Francisco, California.
William Henry Stanley.....	San Francisco, California.
Gustave William Sichel, M.D.....	San Francisco, California.
August Van Crumbrughe.....	San Francisco, California.

1883.

John Nelson Blood.....	Greenville, California.
Charles Boxton.....	San Francisco, California.
Maria Angelina Burch.....	Pescadero, California.
Edward Overton Cochrane.....	San Francisco, California.
Russell Hopkins Cool.....	Oakland, California.
Milton Francis Gabbs.....	Sutter Creek, California.
William Edmund Price.....	San Francisco, California.

1884.

George Washington Cool.....	Oakland, California.
John Michael Dunn.....	Oakland, California.
Archibald Duncan Gleaves.....	Anderson, California.
Robert Nicol.....	Archiestown, Scotland.
Gustave Carl Rietzke.....	Kuhn, Germany.
William Henry Simmons.....	Oakland, California.
Elmer Joseph Weldon.....	Vacaville, California.

1885.

Harry Sylvester Bettis.....	San Francisco, California.
George Botsford.....	Campbellton, Canada.
Daniel Barratt Cate.....	Quincy, California.
Nathaniel Thomas Coulson.....	Cornwall, England.
George Ihmer Drucker.....	San Francisco, California.
William Ellis Fitzpatrick.....	Empire City, Nevada.
Walter Robert Henderson.....	Stockton, California.
John Adams Douglas Hutton.....	San José, California.
Franklin Pancoast.....	San Francisco, California.
Charles Theodore Rodolph.....	Oakland, California.
Frederick Judson Saxe, A.M.....	Santa Clara, California.
Joseph Schneider.....	Vallejo, California.
Henry Sylvester, Jr.....	San Francisco, California.



## COMMENCEMENT, 1885.

---

The fourth Commencement exercises of the Dental Department of the University of California were held in connection with those of the Medical Department of the University, at the Grand Opera House, San Francisco, California, Tuesday, November 10, 1885, at 2 o'clock P. M.

### ORDER OF EXERCISES.

OVERTURE—Orchestra, Louis Schmidt, Sr., Conductor.

PRAYER—Rev. T. K. Noble.

MUSIC—Orchestra.

ADDRESS ON BEHALF OF THE MEDICAL DEPARTMENT—Professor Benjamin R. Swan, M.D.

MUSIC—Orchestra.

ADDRESS ON BEHALF OF THE DENTAL DEPARTMENT—Professor Maurice J. Sullivan, D.D.S.

MUSIC—Orchestra.

CONFERRING DEGREES OF DOCTOR OF MEDICINE.

CONFERRING DEGREES OF DOCTOR OF DENTAL SURGERY.

MUSIC—Orchestra.

ADMINISTRATION OF THE HIPPOCRATIC OATH TO THE GRADUATES OF MEDICINE—Professor R. Beverly Cole, A.M., M.D., M.R.C.S., Eng., Chairman of the Faculty of Medicine.

MUSIC—Orchestra.

BENEDICTION—Rev. T. K. Noble.

# UNIVERSITY OF CALIFORNIA.

## LITERARY AND SCIENTIFIC (UNDERGRADUATE) DEPARTMENTS,

### INCLUDING

- |   |                            |
|---|----------------------------|
| 1. COLLEGE OF LETTERS.<br>(CLASSICAL COURSE.) | 4. COLLEGE OF MINING.      |
| 2. COLLEGE OF AGRICULTURE.                    | 5. COLLEGE OF ENGINEERING. |
| 3. COLLEGE OF MECHANICS.                      | 6. COLLEGE OF CHEMISTRY.   |
|   | 7. LITERARY COURSE.        |
| 8. COURSE IN LETTERS AND SCIENCE.             |                            |

### Academic Staff.

- E. S. HOLDEN, A.M., President of the University.  
 WILLIAM ASHBURNER, Honorary President of Mining.  
 GEO. WOODBURY BUNNELL, A.M., Professor of the Greek Language and Literature.  
 SAMUEL B. CHRISTY, Ph.B., Professor of Mining and Metallurgy.  
 ALBERT S. COOK, Ph.D., Professor of the English Language and Literature.  
 GEO. DAVIDSON, A.M., Honorary Professor of Geodesy and Astronomy.  
 STEPHEN J. FIELD, LL.D., Honorary Professor of Law.  
 FREDERICK G. HESSE, Professor of Industrial Mechanics.  
 EUGENE W. HILGARD, Ph.D., Professor of Agriculture, Agricultural Chemistry, General and Economic Botany.  
 GEORGE H. HOWISON, A.M., LL.D., Mills Professor of Intellectual and Moral Philosophy and Civil Polity.  
 J. A. HUTTON, 1st Lt. 8th Infantry, U. S. A., Professor of Military Science and Tactics.  
 MARTIN KELLOGG, A.M., Dean, and Professor of the Latin Language and Literature.  
 JOHN LeCONTE, M.D., LL.D., Professor of Physics.  
 JOSEPH LeCONTE, M.D., LL.D., Professor of Geology and Natural History.  
 BERNARD MOSES, Ph.D., Professor of History and Political Economy.  
 ALBIN PUTZKER, Professor of German.  
 WILLARD B. RISING, Ph.D., Professor of Chemistry.  
 FRANK SOULÉ, JR. (U. S. Military Academy), Professor of Civil Engineering and Astronomy.  
 IRVING STRINGHAM, Ph.D., Professor of Mathematics.  
 JOHN B. CLARKE, Ph.B., Assistant Professor of Mathematics.  
 GEORGE C. EDWARDS, Ph.B., Assistant Professor of Mathematics.  
 E. J. WICKSON, A.M., Lecturer on Practical Agriculture.

# UNIVERSITY OF CALIFORNIA.

## DEPARTMENT OF PHARMACY.

### FACULTY.

- EDWARD S. HOLDEN, A.M., President of the University of California.  
 WILLIAM T. WENZELL, M.D., Ph.G., Professor of Chemistry, No. 19 Drumm Street.  
 HERMANN H. BEHR, M.D., Professor of Botany, No. 509 Kearny Street.  
 FREDERICK GRAZER, Ph.G., Professor of Materia Medica, No. 113 Fulton Street.  
 EDWARD W. RUNYON, Ph.G., Professor of Theory and Practice of Pharmacy, Dean of the Faculty, Nos. 529 and 531 Market Street.

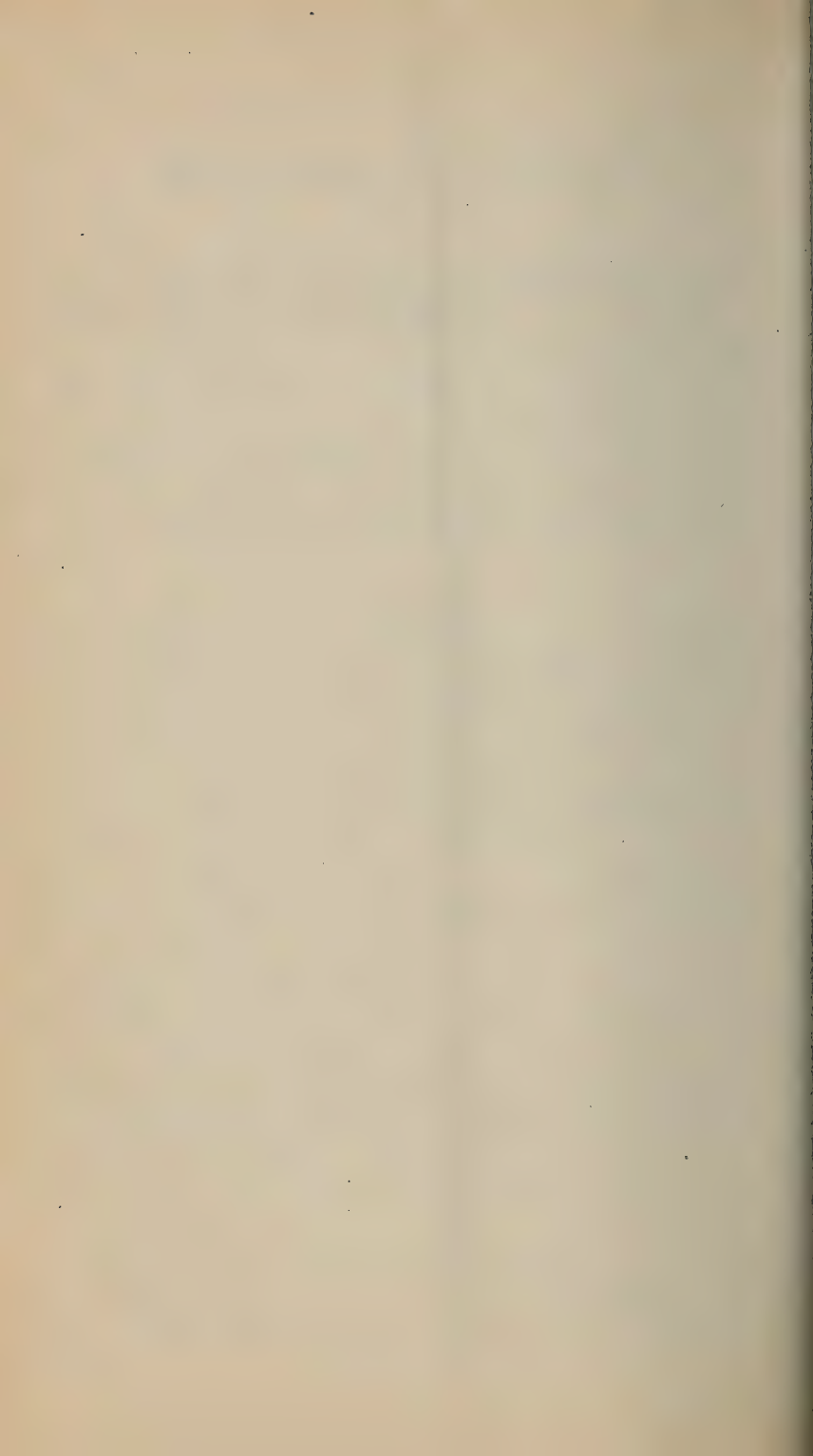
### Quiz Masters.

- CHEMISTRY, ——— ———.  
 PHARMACY, ——— ———.  
 MATERIA MEDICA, J. J. B. ARGENTI, Ph.G.  
 BOTANY, J. J. B. ARGENTI, Ph.G.

### Instructor in Latin.

- CHARLES GREEN, A.B.

THE LIBRARY OF THE  
 FEB 26 1931  
 UNIVERSITY OF ILLINOIS.









# ANNOUNCEMENT

OF THE

# COLLEGE OF DENTISTRY

OF THE

UNIVERSITY OF CALIFORNIA,

FOR ITS

SIXTH SESSION,

COMMENCING MARCH 7, 1887.

AND

ENDING NOVEMBER 30, 1887.

THE LIBRARY OF THE  
FEB 26 1931  
UNIVERSITY OF ILLINOIS

---

B.—Those who wish to receive the Announcement are requested to forward their Names and Addresses to the Dean.

---

SAN FRANCISCO:

A. J. LEARY, PRINTER AND PUBLISHER,  
1887.

## CONTENTS.

---

DIRECTORY.....	3
BOARD OF REGENTS.....	4
FACULTY.....	5
ANNOUNCEMENT.....	6
COMMENCEMENT OF TERM.....	9
SCHEDULE OF STUDY .....	9
REQUIREMENTS FOR ADMISSION.....	9
JUNIOR EXAMINATIONS.....	10
REQUIREMENTS FOR GRADUATION.....	10
FEES.....	11
TEXT-BOOKS.....	11
OUTLINE OF COURSE OF STUDY.....	12
EXAMINATION FOR ADMISSION.....	16
MATRICULATES OF 1886.....	18
GRADUATES.....	18
COMMENCEMENT EXERCISES.....	20
ACADEMIC SENATE.....	21
LITERARY AND SCIENTIFIC DEPARTMENTS.....	26
MEDICAL DEPARTMENT.....	28
PHARMACEUTICAL DEPARTMENT.....	29
LAW DEPARTMENT.....	30

## OFFICE DIRECTORY.

---

### IN BERKELEY.

The office of the PRESIDENT is Room No. 2, *North Hall*.

The office of the RECORDER is Room No. 28, *North Hall*.

The office of the SECRETARY OF THE BOARD OF REGENTS is in *South Hall*.

The office of the LAND AGENT is in *South Hall*.

The office of the MANAGER OF THE UNIVERSITY PRINTING PRESS is No. 27, *North Hall*.

---

### IN SAN FRANCISCO.

The office of the DEAN OF THE COLLEGE OF LAW is No. 121 Post Street.

Lectures in the COLLEGE OF LAW are delivered in the Assembly Room of the Society of Pioneers, No. 808 Montgomery Street.

The office of the DEAN OF THE MEDICAL FACULTY is No. 603 Merchant Street.

THE COLLEGE OF MEDICINE is situated on Stockton Street, between Chestnut and Francisco, in Toland Hall.

The Medical and Surgical Clinics of the COLLEGE OF MEDICINE are held at the City and County Hospital, Twenty-second Street and Potrero Avenue.

The Dispensary Clinics of the COLLEGE OF MEDICINE are held in Toland Hall.

The office of the DEAN OF THE DENTAL FACULTY is No. 131 Post Street.

Lectures in the COLLEGE OF DENTISTRY are delivered in Toland Hall, Stockton Street, between Chestnut and Francisco.

The office of the DEAN OF THE COLLEGE OF PHARMACY is No. 529 Market St.

The COLLEGE OF PHARMACY is situated at No. 113 Fulton Street, between Polk Street and Van Ness Avenue.

The office of the BOARD OF REGENTS is in Mechanics' Institute Library, 31 Post Street.

The office of the TREASURER of the BOARD OF REGENTS is 310 Sansome Street.

## BOARD OF REGENTS.

### EX OFFICIO REGENTS.

HIS EXCELLENCY WASHINGTON BARTLETT,	- - - - -	SACRAMENTO.
<i>Governor, ex officio President of the Board.</i>		
HIS HONOR R. W. WATERMAN,	- - - - -	
<i>Lieutenant-Governor.</i>		
HON. W. H. JORDAN,	- - - - -	ALAMEDA.
<i>Speaker of the Assembly.</i>		
HON. IRA G. HOITT,	- - - - -	SACRAMENTO.
<i>State Superintendent of Public Instruction.</i>		
HON. JESSE D. CARR,	- - - - -	SALINAS.
<i>President of the State Agricultural Society.</i>		
P. B. CORNWALL, ESQ.,	NORTHWEST COR. SPEAR AND BRYANT STS., SAN FRANCISCO.	
<i>President of the Mechanics' Institute.</i>		
EDWARD S. HOLDEN, LL.D.,	- 120 SUTTER ST.,	SAN FRANCISCO.
<i>President of the University.</i>		

### \* APPOINTED REGENTS.

NAME.	ADDRESS.	TERM EXPIRES.
REV. HORATIO STEBBINS, D.D.,	- 1609 Larkin St., San Francisco.	- 1894
HON. JOHN S. HAGER, A.M., LL.D.,	- Palace Hotel, San Francisco,	- 1894
HON. J. WEST MARTIN,	- - - - Union Bank, Oakland,	- 1898
HON. JOHN F. SWIFT,	- 32 O'Farrell St., San Francisco,	- 1888
A. S. HALLIDIE, ESQ.,	- 329 Market St., San Francisco.	- 1892
HON. JOSEPH W. WINANS, A.M.,	- 604 Merchant St., San Francisco,	- 1890
JOHN. L. BEARD, A.M.,	- - - - Centreville,	- 1892
HON. A. L. RHODES,	- 430 California St., San Francisco,	- 1888
PROF. WILLIAM ASHBURNER,	- 1014 Pine St., San Francisco,	- 1896
HON. T. GUY PHELPS,	- Belmont,	- 1896
GEORGE T. MARYE, JR., LL.B.,	- 234 Montgomery St., San Francisco,	1898
ARTHUR RODGERS, A.B., Ph.B.,	- 309 Montgomery St., San Francisco,	1890
GEORGE J. AINSWORTH, Ph.B.,	- North Temescal,	- 1900
D. M. DELMAS, A.M.,	- 327 Pine St., San Francisco,	- 1900
HON. WILLIAM T. WALLACE,	- 799 Van Ness Ave., San Francisco,	1902
I. W. HELLMAN, ESQ.,	- - - - Los Angeles,	- 1902

Regular meetings of the Board of Regents are held five times a year, viz.: on the first Tuesday in March, September and December, on the last Tuesday in May, and on the Tuesday preceding the last Wednesday in June.

\* In order of appointment.



# UNIVERSITY OF CALIFORNIA.

## COLLEGE OF DENTISTRY.

TOLAND HALL, STOCKTON STREET BELOW CHESTNUT, SAN FRANCISCO, CAL.

### FACULTY.

- E. S. HOLDEN, LL.D., *President of the University, and ex-officio President of the Faculty.*  
JOSEPH LE CONTE, M.D., LL.D., *Honorary Professor of Biology.*  
S. W. DENNIS, M.D., D.D.S., *Professor of Operative Dentistry, and Dental Histology.*  
C. L. GODDARD, A.M., D.D.S., *Dean, and Professor of Mechanical Dentistry.*  
M. W. FISH, M.D., *Professor of Physiology.*  
W. E. TAYLOR, M.D., *Professor of the Principles and Practice of Surgery.*  
A. L. LENGFELD, M. D., *Professor of Materia Medica, and Medical Chemistry.*  
WM. B. LEWITT, M.D., *Professor of Anatomy.*  
MAURICE J. SULLIVAN, D.D.S., *Professor of Dental Pathology and Therapeutics.*

### DEMONSTRATORS.

- J. SCHNEIDER, D.D.S., F. J. SAXE, A.M., D.D.S., *Demonstrators of Operative Dentistry.*  
CHARLES BOXTON, D.D.S., M. F. GABBS, D.D.S., *Demonstrators of Mechanical Dentistry.*  
JOHN G. DAY, M.D., *Demonstrator of Anatomy.*

- ARNOLD A. D'ANCONA, A.B., M.D., *Assistant to the Chair of Physiology.*  
WINSLOW ANDERSON, M.D., *Assistant to the Chair of Materia Medica and Medical Chemistry.*

### CLINICAL INSTRUCTORS.

- |                                |                          |
|--------------------------------|--------------------------|
| H. C. DAVIS, L.D.S.....        | San Francisco.           |
| L. L. DUNBAR, D.D.S.....       | San Francisco.           |
| B. W. HAINES, M.D., D.D.S..... | San Francisco.           |
| C. W. HIBBARD, D. D.S.....     | San Francisco.           |
| W. B. KINGSBURY.....           | Santa Clara, California. |
| A. F. McLAIN, M.D., D.D.S..... | Santa Rosa, California.  |
| THOS. MORFEW, D.D.S.....       | San Francisco.           |
| W. E. PRICE, D.D.S.....        | San Francisco.           |
| H. J. PLOMTEAUX, D.D.S.....    | San Francisco.           |
| JNO. RABE, D.D.S.....          | Oakland, California.     |
| MAX. SICHEL.....               | San Francisco.           |
| L. VAN ORDEN, M. D.....        | San Francisco.           |
| W. WOOD.....                   | Sacramento.              |

C. L. GODDARD, Dean.

131 Post Street, San Francisco.

## ANNOUNCEMENT.

On the 7th of March, the Dental Department of the University of California will commence its sixth annual session. During the five years that have passed the College has been successful beyond the fondest hopes of its founders and the sanguine expectations of its friends. The sixth course will be entered upon with a feeling that further success is assured, and that the institution has reason to be honestly proud of the name and reputation it has already gained. Some reason is shown for this pride in the fact that it was the second dental college in the United States to adopt a nine months' term of instruction, and the third to require a preliminary examination. In 1883, notice was given that after the first of January, 1886, *three* years' study, including two courses of lectures, would be required for graduation. It was the third dental college to give such notice. When the National Association of Dental Faculties was formed, in 1884, by representatives of most of the dental colleges of the United States, and an advanced course of study and requirements were adopted, it was found that the Dental Department of the University of California not only equaled but even exceeded these requirements.

Good fruits have already been borne by these requirements. The object of the preliminary examination is not to keep out any who would make good practitioners of dentistry, but to require them to properly qualify themselves by preliminary study, so that they may pursue the advanced studies of the course with greater facility and with greater advantage.

The plan of a nine months' term gives longer time for study, more time for practical instruction, and less crowding of both. We are glad to be able to say that the more intelligent students, and those actuated by the best motives, favor the step in advance.

The reason of requiring *three* years' study instead of two was, that so many who had been through a two years' course were fully convinced that the time was not long enough to properly qualify students for practice.

To both strangers and friends, a brief history of the College and the causes that led to its establishment, may not be uninteresting.

The want of a dental college had long been felt on the Pacific Coast, and several ineffectual attempts had been made to establish one. Owing to the distance of Eastern colleges, there being none further west than the Mississippi River, many young men who desired to practice dentistry could not obtain the requisite collegiate instruction. Too many began to practice without sufficient preparation, as it was impossible for private offices to give the proper training. Too many began practice after spending only a few months in a dental office. Many of the Eastern States had passed laws restricting the practice of dentistry to those who had properly qualified themselves, and could show, as evidence thereof, a diploma from some reputable college, or a certificate of having passed an examination before a State Board of Dental Examiners. Such protection of the public in California could not be expected without a dental college.

The establishment of a dental college was first made possible in 1881, by a petition of the Faculty of the Medical Department to the Board of Regents, offer-

ing accommodations in their own building. The Board accepted their offer, and in September of that year, appointed a Dental Faculty of seven members, three of whom were practitioners of dentistry and four were members of the Medical Faculty. These last appointments were made in order that the dental and medical students might receive together the same instruction in the branches that belonged to both departments.

The Faculty thus appointed met according to instructions from the Board of Regents, adopted By-Laws, arranged the details of the new institution, appointed Demonstrators and Clinical Instructors, solicited subscriptions and purchased the necessary equipment.

As no financial aid or support was given by the State, and the amount of subscription was small, the Faculty had to depend upon the fees of students for providing necessary equipment and maintaining the college after it was established.

At a meeting held November 5, 1884, a resolution was unanimously adopted by the Academic Senate of the University of California, which provides that the Colleges of Medicine, Pharmacy and Dentistry may have a free course of lectures at Berkeley, consisting of Botany, systematic and structural; Comparative Anatomy and Physiology; Biology, with laboratory training; Organic and Inorganic Chemistry, with laboratory work; Microscopic Technology, and Physiological and Pathological Histology; Physics, with laboratory work, and Freehand Drawing. This course is not compulsory, but students who take the three-years' course of study in the Dental Department may have the privilege of spending as much of either the first or second year of the three devoted to the study of Dentistry as they may desire, in taking this course at Berkeley, for which they will be accredited the same as though they spent their whole time at the College of Dentistry. Through this wise and liberal action of the Academic Senate, the opportunity is provided for those students of intellectual capacity and professional ambition to attain that technical knowledge and practical laboratory training and experience so necessary to the scientific investigation of the ætiology of disease. It is well known that but few dental or medical students, or even practitioners, have much knowledge of Histology or Microscopic Technology. When this is the case with a student it is impossible for him to comprehend anything he may hear upon the subject, or to observe the histological relations of normal and abnormal organic tissues. With the advantage of the special course at Berkeley, the students in the Dental Department of the University of California are enabled to carry their studies to whatever extent they may elect—free.

Joseph LeConte, M.D., LL.D., Honorary Professor of Biology, will deliver a special course upon that subject before the class. His eminent ability as a scholar and lecturer cannot help attracting the attention of the scientific men in our profession to the dignity of the school, and the character of its curriculum, as well as making a marked impression on the discipline and culture of the classes.

The College is beautifully situated, well ventilated and lighted, and admirably constructed and arranged for the work in hand. There is always an abundance of clinical material, both operative and mechanical, as well as pathological, drawn from a heterogeneous population of between 250,000 and 300,000. There are seven Professors in the College, besides a corps of able and earnest demonstrators, both operative and mechanical. The Didactic Professors deliver two lectures per week, each, as will be seen on the schedule of instruction.

Wednesday afternoon of each week is set apart for Clinical Instructors, and they are arranged on the schedule in alphabetical order, and two or more are required to operate each week according to schedule, during the term

In consideration of the elevated plane of our course, we feel that the profession and the people have nothing to regret in the establishment of this Dental College among us; and the graduates of it will have nothing to fear when they are brought into intellectual and professional competition with graduates of other colleges, or non-graduates.

Let us once more express our thanks for the support which we have received from the University, Medical and Dental professions, and the people, and hope that at no very distant day there will be one united effort for the promotion of the work in which the Faculty is engaged.

We submit the following extract from the announcement of the Medical Department of the University of California, for the consideration of those who contemplate taking a dental course :

“While the several other Colleges of the State University are clustered at Berkeley, its Medical Department is, for convenience of Clinical study, conducted wholly, or almost wholly, in San Francisco. The advantages for demonstrative teaching presented by a sea-port city of nearly 300,000 inhabitants will be recognized as almost unbounded.

“The main lecture hall of the college is capable of seating 500 persons. The clinical amphitheater is about equally capacious.

“The museum contains an extensive collection of specimens and preparations.

“The dissecting room is fitted up with all the modern improvements.

“The laboratory is replete with all chemicals and apparatus necessary for practical teaching.

“A suite of apartments in the building is set apart for the dispensary clinics.”

There are two large and convenient dental operating rooms, with windows of extra width and height, thus giving light that is unsurpassed. They are furnished with Morrison, Archer and Cycloyd chairs, and handsome operating stands, which will be assigned to students in the order of their matriculation. The laboratory is commodious, and furnished with benches, lathes, furnaces for melting, forge, rolling mill, continuous-gum furnaces, and all other requisites for thorough work. Each student is required to furnish his own instruments and tools, and will be provided with a separate drawer in which they can be securely locked; also with a separate bench, provided with gas for heating purposes.

Those who have laboratory tools and appliances should bring them; those who have not, are advised to defer purchasing till they arrive. Lists will be furnished when desired. During the hours devoted to operative or mechanical dentistry, Professors or competent Demonstrators will be present to assign patients to students, and superintend and assist them in their operations.

Both the Medical and Dental Departments of the University of California, *unlike corresponding Colleges of the Eastern States*, have their regular term in the spring and summer.



## SESSION OF 1887.

Term commences March 7, 1887, and closes November 30, 1887.

SCHEDULE OF STUDY.					
ORDER OF LECTURES AND CLINICS.					
HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.
9 A. M. till 10 A. M.	CLINIC, 9 to 11, Operative Dentistry, Dr. SCHNEIDER	Dental Pathology and Therapeutics, Prof. SULLIVAN.	CLINIC, 9 to 11, Operative Dentistry, Dr. SCHNEIDER or Dr. SAXE.	CLINIC, 9 to 12, Operative Dentistry, Dr. SAXE.	CLINIC, 9 to 11, Operative Dentistry, Dr. SCHNEIDER
10 A. M. till 11 A. M.		CLINIC, 10 to 12 Operative Dentistry, Dr. SAXE.			
11 A. M. till 12 M.			LECTURE, Surgery, Prof. TAYLOR.		LECTURE, Surgery, Prof. TAYLOR.
12 M. till 1 P. M.	CLINIC, 12 to 4, Mechanical Dentistry, Dr. BOXTON.	CLINIC, 12 to 3, Mechanical Dentistry Dr. GABBS.	LECTURE, Chemistry, Prof. LENGFELD.	CLINIC, 12 to 3, Mechanical Dentistry, Dr. BOXTON.	CLINIC, 12 to 4, Mechanical Dentistry, Dr. GABBS.
1 P. M. till 2 P. M.					
2 P. M. till 3 P. M.					
3 P. M. till 4 P. M.		LECTURE, Physiology, Prof. FISH.	CLINICAL INSTRUCTORS, from 2 to 5.	LECTURE, Physiology, Prof. FISH.	
4 P. M. till 5 P. M.	LECTURE, Mechanical Dentistry, Prof. GODDARD.	LECTURE, Anatomy, Prof. LEWITT.		LECTURE, Anatomy, Prof. LEWITT.	LECTURE, Mechanical Dentistry, Prof. GODDARD.
5 P. M. till 6 P. M.	LECTURE, Operative Dentistry, Prof. DENNIS.	DISSECTING.		DISSECTING.	LECTURE, Operative Dentistry, Prof. DENNIS.
SATURDAY, from 9 A. M. to 12 M.			SATURDAY, from 1 to 6 P. M.		
HOSPITAL CLINICS, MEDICAL AND SURGICAL.			CHEMICAL AND HISTOLOGICAL LABORATORY.		

## REQUIREMENTS FOR ADMISSION.

Every candidate for admission must be eighteen years of age, must present to the Faculty satisfactory evidence of a good moral character, and must be examined as to his previous education and fitness to appreciate the technical study of Dentistry. The examinations will be chiefly in writing; and will embrace the following subjects, viz:

1. Arithmetic.
2. Geography.
3. English Grammar and Composition.
4. United States History.
5. Natural Philosophy. (Refer to Avery's Natural Philosophy, Peck's Ganot's Introductory Course in Natural Philosophy, or an equivalent.)
6. Elementary Chemistry. (Refer to Mead's Chemical Primer, Elliot and Storer's Chemistry, Avery's Chemistry, or an equivalent.)



He shall subscribe to Article II, Section 3, of the Code of Ethics of the American Dental Association.\*

No articulation examination will be required of those who have passed the entrance examination of the University of California or of any other recognized college or university, nor of graduates of any recognized academy or high-school, nor of those holding teachers' certificates.

In order to secure a release from this examination, the candidate must present his diploma or certificate of examination or graduation.

The preliminary examination for the Session of 1887 will be held in San Francisco, at the College building, (Toland Hall), Stockton Street, near Francisco, Friday, March 4th, at 9 o'clock A. M. Students desiring to present themselves at this examination will please call previously at the office of the Dean, 131 Post Street.

For further information, see the latter pages of this Announcement.

---

### JUNIOR EXAMINATIONS.

At the end of the Junior year students will be examined in Anatomy, Physiology, Chemistry, (or Materia Medica), Histology and Mechanical Dentistry, and those who are qualified will receive certificates of admission to the Senior Class.

---

### REQUIREMENTS FOR GRADUATION:

The candidate for the degree of Doctor of Dental Surgery must have attained the age of twenty-one years, and be of good moral character.

He shall have passed a satisfactory examination, both oral and written.

He shall have studied Dentistry *three* years, including the time spent in attending lectures.

He shall have attended two full courses in the Dental Department of the University of California, or one year in some other reputable Dental College, and the second or last in this college.

He shall again subscribe to Article II, Section 3, of the Code of Ethics of the American Dental Association.

He *may* write an original thesis upon some subject pertaining to Dentistry or Medicine.

The written examination is required in lieu of a thesis.

The candidate is required to dissect at least two parts. He must treat thoroughly some patient, requiring all the usual dental operations, and bring such patient before the Professors of Operative Dentistry and Dental Pathology and Therapeutics. He must also take up at least one artificial case, and, after it is completed, bring his patient before the Professor of Mechanical Dentistry at least thirty days before the close of the term. He must also prepare a specimen case, to be deposited in the college collection, and present the same to the Professor of Mechanical Dentistry before the first of November. The operating must be performed, and the work on the artificial cases done, at the college building, and exclusively by the applicant for the degree.

Graduates in medicine may apply for the Degree of Doctor of Dental Surgery after having had two full years of practical instruction or experience in dentistry, one year of which, including one course of lectures, must be spent in the Dental Department of the University of California.

---

\* N. B. The object of this requirement is to prevent students from committing unprofessional acts during their collegiate course.

After these requirements have been complied with, upon the recommendation of the Faculty and approval of the Board of Regents, the candidate shall receive the Degree of Doctor of Dental Surgery.

Students who have had no office instruction before attending lectures are advised to attend three courses. No fees will be required for the third course, except that of the Demonstrator of Anatomy.

---

#### FEES.

The Matriculation Fee will be (paid once).....	\$ 5 00
Tuition, 1st year.....	120 00
Tuition, 2d year.....	120 00
Tuition, 3d year.....	Free.
Demonstrator of Anatomy's Fee, each year.....	10 00
Diploma Fee.....	30 00

---

#### TEXT BOOKS.\*

The following books will be needed during the course of study. Students are advised to procure at least the first six at the beginning of the Junior year, and to add the others before the Senior year.

1. Dental Dictionary, Harris, or Medical Dictionary, Dunglison or Thomas.
2. Anatomy, Gray, Quain or Holden.
3. Physiology, Dalton or Flint.
4. Mechanical Dentistry, Richardson or Harris
5. Operative Dentistry, Taft or Harris.
6. Materia Medica, U. S. Dispensatory or National Dispensatory.
7. Dental Anatomy, Tomes.
8. Oral Deformities, Kingsley.
9. Dental Metallurgy, Essig.
10. Dental Materia Medica and Therapeutics, Gorgas or Stockens.
11. Surgery, Ashurst or Bryant.
12. Therapeutics, Wood, Biddle or Bartholow.
13. Dental Pathology, Wedl.
14. Chemistry, Lloyd or Barclay.

---

#### ADDITIONAL BOOKS FOR REFERENCE.

Oral Surgery, Garretson.  
 American System of Dentistry, Litch.  
 Histology, Stricker, Frey, Beal or Wythe.  
 Microscopical Morphology, Heitzman.  
 Pathology, Wagner.

---

\*When "or" is used between authors, students may choose either.

## OUTLINE OF THE COURSE OF STUDY.

---

### BIOLOGY.

Prof. Joseph Le Conte will deliver a series of lectures on the Correlation of Vital with Physical and Chemical Forces; also upon the Homologies of the Vertebrate Skeletons.

---

### PRINCIPLES AND PRACTICE OF OPERATIVE DENTISTRY AND DENTAL HISTOLOGY.

It will be the aim of the incumbent of this Chair, as it is the object of it, to give a comprehensive course upon all of the principles underlying this branch of Dental Science. The means and methods at present used in practice will be fully considered; also, a comparison will be made of the present and former systems of operating.

The intra and extra uterine development of the teeth will be fully dwelt upon; from the inception to the shedding of the temporary or deciduous set, on to the full and complete eruption of the permanent set, and their final loss.

The topographical and general, as well as the minute or histological anatomy of the teeth, will be fully illustrated.

The Principles of the Microscope, and the application of them to the study of the laws of life, health and disease, will demand a share of his attention.

The Principles and Practice of Operative Dentistry embrace so much that the Lecturer from this Chair may necessarily encroach upon the field of several others, but should this be the case, it will be only the outgrowth of a desire to make the course as instructive and interesting, and comprehensive as possible.

---

### MECHANICAL DENTISTRY.

The instruction in Mechanical Dentistry will embrace everything necessary to enable the dentist successfully to supply substitutes for lost dental organs.

Special reference will be made to the principles involved in the restoration of the natural functions of the teeth, namely: mastication, enunciation, and expression of the features, keeping in view always the health and the future usefulness of the living parts.

The construction of artificial dentures on both plastic and metallic bases will be thoroughly explained and illustrated, and the advantages and disadvantages of the different bases will be carefully studied.

Instruction in Dental Metallurgy will include lectures on the various metals used in the laboratory and as bases for artificial dentures; and especially the alloying and refining gold and silver.

The various mechanical means employed in correcting irregularities will be explained and illustrated by means of a large number of drawings, appliances, and casts of practical cases.

## PHYSIOLOGY.

The lectures in this department, by Professor Fish, embrace a consideration of both General and Special Physiology, including all that has been developed up to the present time, and are illustrated by the largest and most complete series of colored drawings in the United States, prepared exclusively for these lectures; besides which, the vast collection of preparations and drawings of the Scientific Department at Berkeley are at the command of the Professor. Vivisections are practiced when necessary to demonstrate principles, and the microscope is freely used for illustrating important facts and principles.

---

## SURGERY.

Professor Taylor delivers two lectures each week on the Art and Science of Surgery. The more recent views on the management of surgical conditions, and the appliances devised for their relief, are particularly dwelt upon, and illustrated with drawings and models when necessary. This course will include a series of lectures upon Operative Surgery, with demonstrations on the cadaver. The student will be drilled in the manipulation of instruments used in the various operations.

In addition to his usual course of lectures on surgery, he will pay particular attention to surgical diseases, and injuries of the head, face, jaws, and mouth.

---

## CHEMISTRY AND MATERIA MEDICA.

Professor Lengfeld will spare no effort to make the course in Chemistry and Materia Medica thoroughly practical and instructive. All important principles are illustrated by means of suitable philosophical, chemical, and other apparatus, and facts and theories are presented in a clear and comprehensive manner.

Special attention will be given to Prescription Writing, Urinary and Salivary Analysis and Toxicology, and to the nature, origin, physical, and chemical properties of the various remedies officinal in the United States Pharmacopœia.

Dr. Winslow Anderson, assistant to the chair of Materia Medica and Medical Chemistry, will conduct the Laboratory investigations, including qualitative analysis and recitations, at least two hours each week during the term.

The first course students will have practical instruction in the chemical laboratory three hours each week.

---

## ANATOMY.

Professor W. B. Lewitt's lectures on anatomy are illustrated fully by the cadaver, and by both wet and dry preparations, models, manikins, and drawings, and include a course on general, special, and topographical anatomy, thus preparing the student for active surgical practice, as well as giving him a thorough knowledge of the relation of organs. Before each lecture a short examination is held on the subject of the preceding lecture.

---

## DENTAL PATHOLOGY AND THERAPEUTICS.

The lectures delivered by the incumbent of this Chair will embrace a full and comprehensive course on the following topics:

I. GENERAL PATHOLOGY—In which will be discussed those general aspects of disease with which it is necessary to be acquainted, in order to be able to understand the nature of any departure from health; causes of disease, symptoms, diag-



nosis, prognosis, temperaments, pathology of anæsthetics, irritation, determination, congestion, inflammation and its terminations:—effusion, suppuration, ulceration, gangrene, sloughing, morbid growths, etc.

2. SPECIAL PATHOLOGY—In which a critical examination will be made into the special causes of dental decay; dental hygiene and prophylaxis; disease of the enamel—of the dentine; diseases of the dentinal pulp—together with the causes of alveolar abscess—its stages and results; exostosis of the roots and alveoli; necrosis and exfoliation; disease of the antrum; tumors, benign and malignant, diseases of the mucous membranes.

Neuralgia and other nervous affections will receive such attention as their importance may demand, and, besides, there will be presented such other special diseases as may in any degree be of interest to the Dental Practitioner, such as scurvy, scrofula, rachitis, and other diseases of the bones.

3. GENERAL PRINCIPLES OF THERAPEUTICS—Under which head the general application of medicines will be noticed—their action, constitutional and topical.

4. SPECIAL THERAPEUTICS—In connection with Dental Materia Medica, as incidentally related thereto.

### THE DENTAL LABORATORY.

The Dental Laboratory will be in charge of the Demonstrators of Mechanical Dentistry, who will assign patients to students, and give practical instruction in preparing the mouth for the insertion of artificial teeth, taking impressions, selecting and arranging teeth, and the construction of artificial dentures on bases of vulcanite, celluloid, silver, gold, etc.; also, in alloying, refining, and preparing the metals for use. Special attention will be given to continuous gum work. On account of the length of the term, the opportunities for practice in correcting irregularities of the teeth will be unsurpassed, and will receive their share of attention.

### DENTAL INFIRMARY.

The Operating Department will be under the immediate supervision of the Demonstrators of Operative Dentistry.

The rooms will be open during the forenoon of Monday, Tuesday, Wednesday, Thursday and Friday, when all practical matters pertaining to Operative Dentistry will be fully dealt with by the Demonstrators, one of whom will always be present. As there is always an excess of clinical material on hand, and there are six hundred and forty-eight hours per term, (including three hours each Wednesday afternoon), devoted to the practical consideration of diseases of the teeth, and the adjacent parts, it is not difficult to estimate the advantages the students have in this department.

### PRACTICAL ANATOMY.

The dissecting-room of the University is spacious, well ventilated, well lighted from above, and provided with every convenience. It is open throughout the year under the superintendence of the Professor of Anatomy and the Demonstrator of Anatomy. A full supply of material is always procurable at small cost, and is thoroughly preserved from decomposition. When the dissections are conducted in a diligent manner, the student is furnished by the Demonstrator with certificates



stating the amount and part dissected. The Dissecting Ticket (\$10) is good for the whole year, from January first to December thirty-first.

---

### CLINICAL INSTRUCTION.

During the course, Wednesday afternoons will be devoted to clinical lectures and operations by the Professors and Clinical Instructors.

---

### HOSPITALS.

All students in Dentistry will have all the facilities and opportunities enjoyed by the medical students in hospital practice and observation. They will have the freedom, as above represented, of the City and County Hospital, City Receiving Hospital, and San Francisco Female Hospital.

Medical and Surgical clinical lectures are given by the Professors of the Medical Department of the City and County Hospital, Tuesdays, Thursdays and Saturdays, from 9 to 11 A. M.

For further particulars on this subject, see Medical Department Announcement.

---

### LIBRARY AND MUSEUM.

A nucleus has been formed from which it is hoped a large library and museum will grow. All members and friends of the profession are invited to contribute books, pamphlets and journals, charts, anatomical, physiological and pathological specimens, casts of deformities and irregularities of the teeth and associate parts, or anything that will be useful or instructive.

These contributions will be placed in the library and museum, and marked with the name of the donor, if desired.

C. L. GODDARD, Dean of the Faculty,  
131 Post Street, San Francisco, Cal.

N. B.—BOARDING. The expense of living in the City of San Francisco is very reasonable. Good board, with room rent, may now be procured at the low rate of \$5 per week, at a convenient distance from the College building. There is a free Public Library in San Francisco, of which students may have full benefit.

## EXAMINATION FOR ADMISSION.

Inquiry having so frequently been made concerning the examination for admission to this college, it is deemed well to append as samples the following questions, given here at the beginning of the session of 1886. The answers to these are required in writing; in some instances an oral examination is also made. It is quite probable that each year a little advance will be made in the character of these examinations. See requirements for admission on page 9.

Write your name in full.

Give date of birth: Day, month, year.

Where do you now reside? Town, county, State.

Where were you born? Town, county, State.

What educational advantages have you had? Name the schools you have attended and the time spent in each?

What branches have you studied, and to what extent have you pursued them?

In what occupation have you been engaged other than that of student, and how long were you thus employed?

When did you commence studying dentistry? Month, year.

How many months of actual medical and dental study have you had to date?

Have you attended a full course at any medical or dental school? If so, where and when?

With what preceptor or preceptors have you studied? Give name and present residence.

Write an English composition, of at least two hundred words, upon a subject of the examiner's selection.

### GRAMMAR.

1. Define grammar, syntax, etymology, noun and verb.
2. Define a complex sentence.
3. Write the plurals of wife, dwarf, staff, ore, die, wealth, phenomenon.
4. Compare the following adjectives: Little, worse, happy, excellent, far.
5. Construct sentences containing the following words: Ambitious, horizontal, contiguous, differ, contemporary.

### ARITHMETIC.

6. Define Arithmetic, Subtraction, Fraction, and Discount.
7. Divide 13,276,010 by 55, and multiply the quotient by 165.
8. How many sq. ft. are there in  $27\frac{3}{4}$  acres?
9. What will be the cost of that quantity of land at \$1.75 per acre, less 6 per cent. discount?
10. Reduce 7 tons, 15 cwt., 3 qrs., 10 lbs., to ounces

### GEOGRAPHY.

11. Explain the following terms: Continent, island, strait, isthmus.
12. What is the difference between physical and political geography.
13. Describe the course of the Colorado, the St. Lawrence, and the Hudson rivers.
14. What are the principal sea-ports on the Atlantic coast of North and South America?
15. What are the principal chains of mountains in the United States? In what direction do they run?

## UNITED STATES HISTORY.

16. Who were Lafayette, Washington, Irving, Henry Clay, and Daniel Webster?
17. What territories of the United States have been acquired by purchase? When and from whom?
18. What were the causes which led to the Mexican war?
19. Who commanded the opposing forces at the battle of Gettysburg?
20. What taxes are levied on the inhabitants of the United States, and by what authorities?

## NATURAL PHILOSOPHY.

21. What is meant by the centre of gravity?
22. What is the difference between physical and chemical change? Illustrate.
23. Describe the Magdeburg Hemispheres and their action.
24. How may Galvanic or Voltaic electricity be produced?
25. Give the laws of the refraction of light.

## MATRICULATES OF 1886.

STUDENT.	RESIDENCE.	PRECEPTOR.
Chacheré, Eugene John, . . . . .	Opelousas, La. . . . .	D. G. Parker, D.D.S.
Dennis, Nathan Park. . . . .	San Francisco, Cal. . . . .	S. W. Dennis, M.D., D.D.S.
Davis, Edward Livingston. . . . .	San Jose, Cal. . . . .	A. O. Hooker.
Gore, Arthur, M. D. . . . .	San Francisco, Cal. . . . .	J. B. Morgan, D.D.S.
Hodgen, Joseph Dupuy. . . . .	Woodland, Cal. . . . .	I. N. Hodgen.
Jones, Harold McKean. . . . .	Cloverdale, Cal. . . . .	H. E. Knox, D.D.S.
Lane, Frederick J. . . . .	Oakland, Cal. . . . .	C. S. Lane.
Maldonado, Edward. . . . .	San Francisco, Cal. . . . .	S. E. Goe, D.D.S.
Payne, Robert Eugene. . . . .	San Francisco, Cal. . . . .	R. M. Thomas.
Post, Charles Edgar. . . . .	San Francisco, Cal. . . . .	L. Van Orden, M. D.
Peel, Johnathan Morffew. . . . .	San Francisco, Cal. . . . .	T. Morffew, D.D.S.
Rudolph, George Walter. . . . .	Oakland, Cal. . . . .	J. H. Hatch, D.D.S.
Regensburger, Arthur Theo. . . . .	San Francisco, Cal. . . . .	L. A. Lee.
Rowand, Joseph Terapin. . . . .	Camden, New Jersey. . . . .	B. W. Haines, D.D.S.
Rose, Charles Franklin. . . . .	San Francisco, Cal. . . . .	J. E. Cummings.
Roddem, George Frederick. . . . .	San Rafael, Cal. . . . .	H. B. Thomas.
Simpson, Jennie Martha. . . . .	Sacramento. Cal. . . . .	O. L. Gordon.
Shuey, Granville Eugene. . . . .	Danville, Cal. . . . .	J. S. Knowlton.
Wilson, Hamburg Conner. . . . .	Cumberland, Md. . . . .	L. B. Wilson, D.D.S.
Westphal, Otto Frank. . . . .	San Francisco, Cal. . . . .	Sylvester & Sublett.

### SENIOR CLASS.

NAME.	RESIDENCE.	PRECEPTOR.
Carlton, Harry Putnam. . . . .	Oakland, Cal. . . . .	C. L. Goddard, A.M., D.D.S.
Couret, Hector Ludovic. . . . .	Sonora, Mexico. . . . .	S. W. Dennis, M.D., D.D.S.
Dunn, Martin Joseph. . . . .	Berkeley, Cal. . . . .	University of California.
Givovich, Nicholas Anton. . . . .	Ragusa, Austria. . . . .	M. Givovich.
Humphrey, John Gow. . . . .	San Francisco, Cal. . . . .	University of California.
Morris, Thomas Harvey. . . . .	Oakland, Cal. . . . .	C. S. Lane.
Reith, William Cormack. . . . .	Sacramento, Cal. . . . .	William Wood.
Sand, Joseph Emil. . . . .	San Francisco, Cal. . . . .	C. W. Decker.
Simmons, Benjamin Franklin. . . . .	Oakland, Cal. . . . .	W. H. Simmons, D.D.S.
Stuttmeister, William Oltman. . . . .	Oakland, Cal. . . . .	J. W. Edwards.
Sylvester, William Grover. . . . .	San Francisco, Cal. . . . .	F. O. Cochrane, D.D.S.

### GRADUATES.

1882.

Thomas Watson Hall. . . . .	Oakland, California.
Charles Wesley Hibbard. . . . .	San Francisco, California.
Thomas Morffew. . . . .	San Francisco, California.
Henry John Plomteaux. . . . .	San Francisco, California.
Charles Wesley Richards. . . . .	San Francisco, California.
William Henry Stanley. . . . .	San Francisco, California.
Gustave William Sichel, M.D. . . . .	San Francisco, California.
August Van Crumbrughe. . . . .	San Francisco, California.

## 1883.

John Nelson Blood.....	Greenville, California.
Charles Boxton.....	San Francisco, California.
Maria Angelina Burch.....	Pescadero, California.
Edward Overton Cochrane.....	San Francisco, California.
Russell Hopkins Cool.....	Oakland, California.
Milton Francis Gabbs.....	Sutter Creek, California.
William Edmund Price.....	San Francisco, California.

## 1884.

George Washington Cool.....	Oakland, California.
John Michael Dunn.....	Oakland, California.
Archibald Duncan Gleaves.....	Anderson, California.
Robert Nicol.....	Archiestown, Scotland.
Gustave Carl Rietzke.....	Kuhn, Germany.
William Henry Simmons.....	Oakland, California.
Elmer Joseph Weldon.....	Vacaville, California.

## 1885.

Harry Sylvester Bettis.....	San Francisco, California.
George Botsford.....	Campbellton, Canada.
Daniel Barratt Cate.....	Quincy, California.
Nathaniel Thomas Coulson.....	Cornwall, England.
George Ihmer Drucker.....	San Francisco, California.
William Ellis Fitzpatrick.....	Empire City, Nevada.
Walter Robert Henderson.....	Stockton, California.
John Adams Douglas Hutton.....	San Jose, California.
Franklin Pancoast.....	San Francisco, California.
Charles Theodore Rodolph.....	Oakland, California.
Frederick Judson Saxe, A.M.....	Santa Clara, California.
Joseph Schneider.....	Vallejo, California.
Henry Sylvester, Jr.....	San Francisco, California.

## 1886.

Harry Putnam Carlton.....	Oakland, California.
Hector Ludovic Couret.....	Sonora, Mexico.
Martin Joseph Dunn.....	Berkeley, California.
Nicholas Anton Givovich.....	Ragusa, Austria.
John Gow Humphrey.....	San Francisco, California.
Thomas Harvey Morris.....	Oakland, California.
William Cormack Reith.....	Sacramento, California.
Joseph Emil Sand.....	San Francisco, California.
Benjamin Franklin Simmons.....	Oakland, California.
William Oltman Stuttmeister.....	Oakland, California.
William Grover Sylvester.....	San Francisco, California.



## COMMENCEMENT, 1886.

---

The fourth Commencement exercises of the Dental Department of the University of California were held in connection with those of the Medical Department of the University, at the California Theatre, San Francisco, California, Friday, December 3, 1886, at 8 o'clock P. M.

### ORDER OF EXERCISES.

OVERTURE—Orchestra, Louis Schmidt, Conductor.

PRAYER—Rev. C. D. Barrows, D.D.

MUSIC—Orchestra.

ADDRESS ON BEHALF OF THE MEDICAL DEPARTMENT—Prof. A. L. Lengfeld, M.D.

MUSIC—Orchestra.

ADDRESS ON BEHALF OF THE DENTAL DEPARTMENT—Prof. M. W. Fish, M.D.

MUSIC—Orchestra.

CONFERRING DEGREES OF DOCTOR OF MEDICINE.

CONFERRING DEGREES OF DOCTOR OF DENTAL SURGERY—  
By Edward S. Holden, A.M., President of the University.

MUSIC—Orchestra.

ORATION—J. Campbell Shorb, M.D.

ADMINISTRATION OF THE HIPPOCRATIC OATH TO THE GRADUATES OF MEDICINE—Prof. R. Beverly Cole, A.M., M.D., M.R.C.S., Eng., Chairman of the Faculty of Medicine.

MUSIC—Orchestra.

BENEDICTION—Rev. C. D. Barrows, D.D.

## ACADEMIC SENATE.

NOTE.—Divided into groups of Professors, Assistant Professors, Instructors, Lecturers and Assistants, and arranged alphabetically in each group.

EDWARD SINGLETON HOLDEN, LL.D., 120 Sutter St., San Francisco.  
*President of the University, and Director of the Lick Observatory.*

WILLIAM ASHBURNER, - - - 1014 Pine St., San Francisco.  
*Honorary Professor of Mining.*

WASHINGTON AYER, M.D., - - 410 Kearny St., San Francisco.  
*Professor of Hygiene.*

HERMANN HANS BEHR, M.D. - - 509 Kearny St., San Francisco.  
*Professor of Botany in the College of Pharmacy.*

J. H. C. BONTE, D.D., - . - - - University Grounds.  
*Professor of Legal Ethics, and Secretary of the Academic Senate.*

GEORGE WOODBURY BUNNELL, A.M., 1955 Telegraph Ave., Oakland.  
*Professor of the Greek Language and Literature.*

SAMUEL BENEDICT CHRISTY, PH.B., - Piedmont, near Bancroft Way,  
Berkeley.  
*Professor of Mining and Metallurgy.*

R. BEVERLY COLE, A.M., M.D., M.R.C.S., ENG., 218 Post St., San Francisco  
*Professor of Obstetrics and Gynecology.*

ALBERT STANBURROUGH COOK, PH.D., 1001 Pine St., San Francisco.  
*Professor of the English Language and Literature.*

GEORGE DAVIDSON, PH.D., - - 1117 Hyde St., San Francisco.  
*Honorary Professor of Geodesy and Astronomy.*

AMUEL WILLIAM DENNIS, M.D., D.D.S., 530 Sutter St., San Francisco.  
*Professor of Operative Dentistry and Dental Histology.*

STEPHEN J. FIELD, LL.D., - - - - - Washington, D. C.  
*Honorary Professor of Law.*

MALANCTHON WILLIAMS FISH, M.D., 461 East Fourteenth St., Oakland.  
*Professor of Physiology and Microscopy.*

LARK LAMOTTE GODDARD, A.M., D.D.S., 131 Post St., San Francisco.  
*Professor of Mechanical Dentistry, and Dean of the Dental Faculty.*

- FREDERICK A. GRAZER, PH.G., - 113 Fulton St., San Francisco.  
*Professor of Materia Medica in the College of Pharmacy.*
- GEORGE F. E. HARRISON (1st Lieut. 2d U. S. Artillery), 806 Franklin St.,  
 San Francisco.  
*Professor of Military Science and Tactics.*
- SERRANNO CLINTON HASTINGS, LL.D., 636 Clay St., San Francisco.  
*Professor of Comparative Jurisprudence.*
- FREDERICK GODFRAY HESSE, - 1273 San Pablo Ave., Oakland.  
*Professor of Mechanical Engineering.*
- EUGENE WALDEMAR HILGARD, PH.D., LL.D., Bancroft Way, near  
 Audubon St., Berkeley.  
*Professor of Agriculture, Agricultural Chemistry, General and Economic Botany.*
- GEORGE HOLMES HOWISON, LL.D., Ellsworth St., near Bancroft Way,  
 Berkeley.  
*Mills Professor of Intellectual and Moral Philosophy and Civil Polity.*
- ABRAHAM WENDELL JACKSON, PH.B., - Fourth University Cottage,  
 Berkeley.  
*Professor of Mineralogy, Petrography and Economic Geology.*
- WILLIAM CAREY JONES, A.M., Bancroft Way, near Dana St., Berkeley.  
*Instructor in United States History and Constitutional Law, and Professor of  
 Roman and Constitutional Law.*
- F. B. KANE, M.D., M.R.C.S.I., - - - 46 O'Farrell St., San Francisco.  
*Professor of Clinical Medicine and Pathology.*
- MARTIN KELLOGG, A.M., - - - - - Bushnell St., Berkeley.  
*Professor of the Latin Language and Literature.*
- W. W. KERR, M. D.,  
*Professor of Therapeutics.*
- JOHN LeCONTE, M.D., LL.D., - Cor. Dwight Way and Mark St., Berkeley.  
*Professor of Physics.*
- JOSEPH LeCONTE, M.D., LL.D., - Bancroft Way, near Piedmont Ave.,  
 Berkeley.  
*Professor of Geology and Natural History.*
- ABRAHAM LEWIS LENGFELD, M.D., Cor. Stockton and Geary Sts., San  
 Francisco.  
*Professor of Materia Medica and Medical Chemistry.*
- WILLIAM BREakey LEWITT, M.D., - 605 Laguna St., San Francisco.  
*Professor of Anatomy.*

- WILLIAM H. MAYS, M.D., - - -  
*Professor of Mental Diseases and Medical Jurisprudence.*
- ROBERT A. McLEAN, M.D., - - 603 Merchant St., San Francisco.  
*Professor of Clinical and Operative Surgery, and Dean of the Medical Faculty.*
- W. F. McNUTT, M.D., M.R.C.P., EDIN., ETC., - 121 Montgomery St., San Francisco.  
*Professor of the Principles and Practice of Medicine.*
- BERNARD MOSES, PH.D., - - - - Audubon St., Berkeley.  
*Professor of History and Political Economy.*
- EDWARD THOMAS OWEN, A.B., - 1001 Pine St., San Francisco.  
*Professor of the French and Spanish Languages and Literature.*
- GEORGE HERMAN POWERS, A.M., M.D., 215 Geary St., San Francisco.  
*Professor of Ophthalmology and Otology.*
- ALBIN PUTZKER, - - - Cor. Humboldt Ave. and Parker St., Berkeley.  
*Professor of the German Language and Literature.*
- WILLARD BRADLEY RISING, M.E., PH.D., Cor. Allston and Chapel Sts., Berkeley.  
*Professor of Chemistry.*
- EDWARD WHELOCK RUNYON, PH.G., 529 Market St., San Francisco.  
*Professor of the Theory and Practice of Pharmacy, and Dean of the Pharmaceutical Faculty.*
- GEORGE AUGUSTUS SHURTLEFF, M.D., - - - -  
*Emeritus Professor of Mental Diseases and Medical Jurisprudence.*
- CHARLES WILLIAM SLACK, PH.B., LL.B., - 320 California St., San Francisco.  
*Acting Professor of Municipal Law.*
- FRANK SOULÉ (United States Military Academy), - 940 Oak St., Oakland.  
*Professor of Civil Engineering and Astronomy.*
- IRVING STRINGHAM, PH.D., Cor. Piedmont and Bancroft Way, Berkeley.  
*Professor of Mathematics, Dean of the College of Letters and the Colleges of Science.*
- MAURICE J. SULLIVAN, D.D.S., - - 30 Post St., San Francisco.  
*Professor of Dental Pathology and Therapeutics.*
- BENJAMIN RALPH SWAN, M.D., - 310 Stockton St., San Francisco.  
*Professor of Diseases of Children.*
- WILLIAM EDWIN TAYLOR, M.D., - - 215 Geary St., San Francisco.  
*Professor of the Principles and Practice of Surgery.*

WILLIAM THEODORE WENZELL, M.D., PH.G., 532 Market St., San Francisco.

*Professor of Chemistry in the College of Pharmacy.*

JOSEPH W. WINANS, A.M. - - - 604 Merchant St., San Francisco.

*Dean of the Law Faculty.*

---

*Agassiz Professor of Oriental Languages and Literature.*

---

*Professor of Municipal Law.*

CORNELIUS BEACH BRADLEY, A.M., - 668 Eighteenth St., Oakland.

*Assistant Professor of the English Language and Literature.*

JOHN BERNARD<sup>†</sup> CLARKE, PH.B., - 1736 Thirteenth St., Oakland.

*Assistant Professor of Mathematics.*

GEORGE CUNNINGHAM EDWARDS, PH.B., 1568 Webster St., Oakland.

*Assistant Professor of Mathematics.*

FREDERICK SLATE, B.S., - Audubon St., nr. Bancroft Way, Berkeley.

*Assistant Professor of Physics and Mechanics.*

WILLIAM WHITE DEAMER, A.B., - Third University Cottage, Berkeley.

*Instructor in Latin and Greek.*

EDWARD LEE GREENE, PH.B., Ellsworth St., nr. Bancroft Way, Berkeley.

*Instructor in Botany.*

†AUGUST HARDING, - - - - - 416 Tenth St., Oakland.

*Instructor in Chemistry.*

HERMANN KOWER, C.E., - - - - - Berkeley.

*Instructor in Instrumental Drawing.*

CHARLES HERBERT LEVERMORE, PH.D., - Durant Ave., Berkeley.

*Instructor in History.*

\*EDMOND C. O'NEILL, PH.B., - - - 1403 Chestnut St., Oakland.

*Instructor in Chemistry.*

WILLIAM GALT RAYMOND, C.E., Bancroft Way, nr. Fulton St., Berkeley.

*Instructor in Civil Engineering.*

JOACHIM HENRY SENGER, A.B., - 2122 Steiner St., San Francisco.

*Instructor in German.*

---

\* Absent on leave.

† Serving during the absence of Mr. O'Neill.



FRANCIS HOVEY STODDARD, A.M., Centennial Hotel, Fourteenth St.,  
Oakland.

*Instructor in English.*

---

EDWARD JAMES WICKSON, A.M., Atherton St., near Bancroft Way,  
Berkeley.

*Lecturer on Practical Agriculture, and Assistant Superintendent of the Ex-  
perimental Grounds.*

---

JAMES P. H. DUNN, B.S., - - - - - Berkeley.  
*Assistant in Chemistry.*

# UNIVERSITY OF CALIFORNIA.

## UNDERGRADUATE DEPARTMENTS AT BERKELEY.

### INCLUDING

- |  |                            |
|--|----------------------------|
| 1. COLLEGE OF LETTERS.                       | 2. COLLEGE OF AGRICULTURE. |
| (a) CLASSICAL COURSE.                        | 3. COLLEGE OF MECHANICS.   |
| (b) LITERARY COURSE.                         | 4. COLLEGE OF MINING.      |
| (c) COURSE IN LETTERS AND POLITICAL SCIENCE. | 5. COLLEGE OF ENGINEERING. |
|  | 6. COLLEGE OF CHEMISTRY.   |

### Academic Staff.

- E. S. HOLDEN, LL.D., President of the University.  
 WILLIAM ASHBURNER, Honorary President of Mining.  
 GEO. WOODBURY BUNNELL, A.M., Professor of the Greek Language and Literature.  
 SAMUEL B. CHRISTY, PH.B., Professor of Mining and Metallurgy.  
 ALBERT S. COOK, PH. D., Professor of the English Language and Literature.  
 GEO. DAVIDSON, PH.D., Honorary Professor of Geodesy and Astronomy.  
 STEPHEN J. FIELD, LL.D., Honorary Professor of Law.  
 GEORGE F. E. HARRISON, ( 1st Lieut. 2d U. S. Artillery), Professor of Military Science and Tactics.  
 FREDERICK G. HESSE, Professor of Mechanical Engineering.  
 EUGENE W. HILGARD, PH.D., LL. D., Professor of Agriculture, Agricultural Chemistry, General and Economic Botany.  
 GEORGE H. HOWISON, LL.D., Mills Professor of Intellectual and Moral Philosophy and Civil Polity.  
 A. WENDELL JACKSON, JR., PH.B., Professor of Mineralogy, Petrography and Economic Geology.  
 MARTIN KELLOGG, A.M., Professor of the Latin Language and Literature.  
 JOHN LeCONTE, M.D., LL.D., Professor of Physics.  
 JOSEPH LeCONTE, M.D., LL.D., Professor of Geology and Natural History.  
 WILLIAM CAREY JONES, A.M., Instructor in United States History and Constitutional Law, and Professor of Roman and Constitutional Law.  
 BERNARD MOSES, PH.D., Professor of History and Political Economy.  
 EDWARD T. OWEN, A.B., Professor of the French and Spanish Languages and Literature.  
 ALBIN PUTZKER, Professor of German.  
 WILLARD B. RISING, M. E., PH.D., Professor of Chemistry.  
 FRANK SOULÉ, ( U. S. Military Academy ), Professor of Civil Engineering and Astronomy.  
 IRVING STRINGHAM, PH.D., Professor of Mathematics, Dean of the College of Letters and the Colleges of Science.

C. B. BRADLEY, A.M., Assistant Professor of the English Language and Literature.

JOHN B. CLARK, PH.B., Assistant Professor of Mathematics.

GEORGE C. EDWARDS, PH.B., Assistant Professor of Mathematics.

EDWARD LEE GREENE, Assistant Professor of Botany.

FREDERICK SLATE, Assistant Professor of Physics and Mechanics.

W. W. DEAMER, A.B., Instructor in Latin and Greek.

AUGUST HARDING, Instructor in Chemistry. †

HERMANN KOWER, C. E., Instructor in Instrumental Drawing.

CHARLES H. LEVERMORE, PH.D., Instructor in History.

EDMOND C. O'NEILL, PH.B., Instructor in Chemistry.\*

WM. G. RAYMOND, C. E., Instructor in Civil Engineering.

J. HENRY SENDER, A.B., Instructor in German.

FRANCIS H. STODDARD, A.M., Instructor in English.

E. J. WICKSON, A.M., Lecturer on Practical Agriculture and Assistant Superintendent of the Experimental Grounds.

JAMES P. H. DUNN, B. S., Assistant in Chemistry.

#### ASSISTANTS AND OTHER OFFICERS.

MYER E. JAFFA, PH.B., First Assistant in the Viticultural Laboratory.

FREDERICK W. MORSE, PH.B., Assistant in the General Agricultural Laboratory.

GEORGE ELDEN COLBY, PH.B., Second Assistant in the Viticultural Laboratory.

ADOLPH SOMMER, PH.G., Assistant in Chemistry.

JOSEPH A. SLADKY, Superintendent of the Machine Shop.

JOSEPH C. ROWELL, A.B., Librarian.

J. J. RIVERS, Curator of the University Museum.

† Serving during the absence of Mr. O'Neill.

\* Absent on leave.

# UNIVERSITY OF CALIFORNIA.

## MEDICAL DEPARTMENT.

### FACULTY.

- EDWARD S. HOLDEN, LL.D., President of the University.  
 G. A. SHURTLEFF, M.D., Emeritus Professor of Mental Diseases and Medical Jurisprudence.  
 R. BEVERLY COLE, A.M., M.D., M.R.C.S., Eng. Professor of Obstetrics and Gynecology.  
 M. W. FISH, M.D., Professor of Physiology and Microscopy.  
 W. F. McNUTT, M.D., M.R.C.P., Edin., etc., Professor of Principles and Practice of Medicine.  
 ROBERT A. McLEAN, M.D., Professor of Clinical and Operative Surgery.  
 W. E. TAYLOR, M.D., Professor of Principles and Practice of Surgery.  
 GEO. H. POWERS, A.M., M.D., Professor of Ophthalmology and Otology.  
 F. B. KANE, M.D., F.R.C.S.I., Professor of Clinical Medicine and Pathology.  
 A. L. LENGFELD, M.D., Professor of Materia Medica and Medical Chemistry.  
 WM. B. LEWITT, M.D., Professor of Anatomy.  
 BENJ. R. SWAN, M.D., Professor of Diseases of Children.  
 WM. H. MAYS, Professor of Mental Diseases and Medical Jurisprudence.  
 WASHINGTON AYER, M.D., Professor of Hygiene.  
 W. W. KERR, M.D., Professor of Therapeutics.

- L. A. SABEY, M.D., Curator.  
 JOHN G. DAY, M.D., Demonstrator of Anatomy.

### College Dispensary Staff.

- C. G. KENYON, M.D., W. B. LEWITT, M.D., Surgery.  
 JULES SIMON, M.D., Nervous Diseases.  
 LUKE ROBINSON, M.D., M.R.C.P., Eng., Medicine.

- ARNOLD A. D'ANCONA, A.B., M.D., Assistant to the Chair of Physiology.  
 WINSLOW ANDERSON, M.D., Assistant to the Chair of Materia Medica and Medical Chemistry.  
 HENRY W. DODGE, M.D., Assistant to the Chair of Clinical Medicine and Pathology.  
 JULES SIMON, M.D., Assistant to the Chair of Mental Diseases and Medical Jurisprudence.

For annual announcement, address—

ROBERT A. McLEAN, M.D., Dean,  
 603 Merchant Street, corner of Montgomery,  
 San Francisco, California.

# UNIVERSITY OF CALIFORNIA.

---

## DEPARTMENT OF PHARMACY.

---

### FACULTY.

EDWARD S. HOLDEN, LL.D., PRESIDENT OF THE UNIVERSITY OF CALIFORNIA.

WILLIAM T. WENZELL, M.D., PH.G.,.....PROFESSOR OF CHEMISTRY.  
 HERMANN H. BEHR, M.D.....PROFESSOR OF BOTANY.  
 FREDERICK A. GRAZER, PH.G.....PROFESSOR OF MATERIA MEDICA.  
 EDWARD W. RUNYON, PH.G.....PROFESSOR OF PHARMACY.

---

*The Fifteenth Annual Course* will begin April 4th, 1880 and continue to October 1st of the same year. Lectures will be delivered on Chemistry, Materia Medica, Botany, Theoretical and Practical Pharmacy. Arrangements have been made to provide Laboratory Instruction in Chemical and Pharmaceutical Work, and in every respect efforts will be made to keep pace with the rapid advancement of Pharmaceutical Science.

*A Gold Medal, Scientific Apparatus* and *A Free Scholarship* will be bestowed in each session. For particulars, see Prospectus.

*Library and Reading Room* is open daily to the use of students.

*Assistants* seeking situations, and *Employers* wanting clerks, should register their names in the College.

*Students* may have their *mail matter* addressed in the care of the College.

For Prospectus, Terms, and further information, address,

EDWARD W. RUNYON,

DEAN OF THE FACULTY,

529 AND 531 MARKET STREET,

SAN FRANCISCO, CAL.



# UNIVERSITY OF CALIFORNIA.

---

## LAW DEPARTMENT, (HASTING'S COLLEGE OF THE LAW.)

---

### DIRECTORS.

HON. ROBERT F. MORRISON, Chief Justice of the Supreme Court, *ex-officio*  
 President of the Board.  
 COL. JOSEPH P. HOGE, Vice President.  
 SAMUEL M. WILSON, Esq.  
 OLIVER P. EVANS, Esq.  
 THOMAS B. BISHOP, Esq.  
 HON. JOHN R. SHARPSTEIN.  
 THOMAS I. BERGIN, Esq.  
 ROBERT P. HASTINGS, Esq.  
 RALPH C. HARRISON, Esq.

THE LIBRARY OF THE  
 FEB 26 1931  
 UNIVERSITY OF ILLINOIS.

### FACULTY.

EDWARD S. HOLDEN, LL.D., President of the University of California.  
 J. H. C. BONTÉ, A.M., D.D., Professor of Legal Ethics.  
 S. CLINTON HASTINGS, LL.D., Professor of Comparative Jurisprudence.  
 WILLIAM CAREY JONES, A.M., Professor of Roman and Constitutional  
 Law.  
 CHARLES W. SLACK, LL.B., Acting Professor of Municipal Law.  
 JOSEPH W. WINANS, A.M., Dean.

---

PIERRE KEWEN, Registrar.

---

The course of study occupies three years. Graduates receive the degree of Bachelor of Laws, and are admitted to practice in all the Courts of the State, on presentation of diplomas.

Applicants for admission are required to be at least eighteen years of age, to present certificates of good moral character, and to pass a satisfactory examination in English, Arithmetic, Algebra, Plane Geometry, History, Geography and Latin.

Tuition is free, with the exception of a small class fee.

The College year corresponds to that of the Colleges at Berkeley.

The lectures are delivered at the Old Hall of Pioneers, 808 Montgomery street, San Francisco.

The office of the Dean and of the Registrar, is at 121 Post street, San Francisco.











ANNOUNCEMENT  
OF THE  
COLLEGE OF DENTISTRY  
OF THE

UNIVERSITY OF CALIFORNIA,

FOR ITS

SEVENTH SESSION, ILLINOIS.

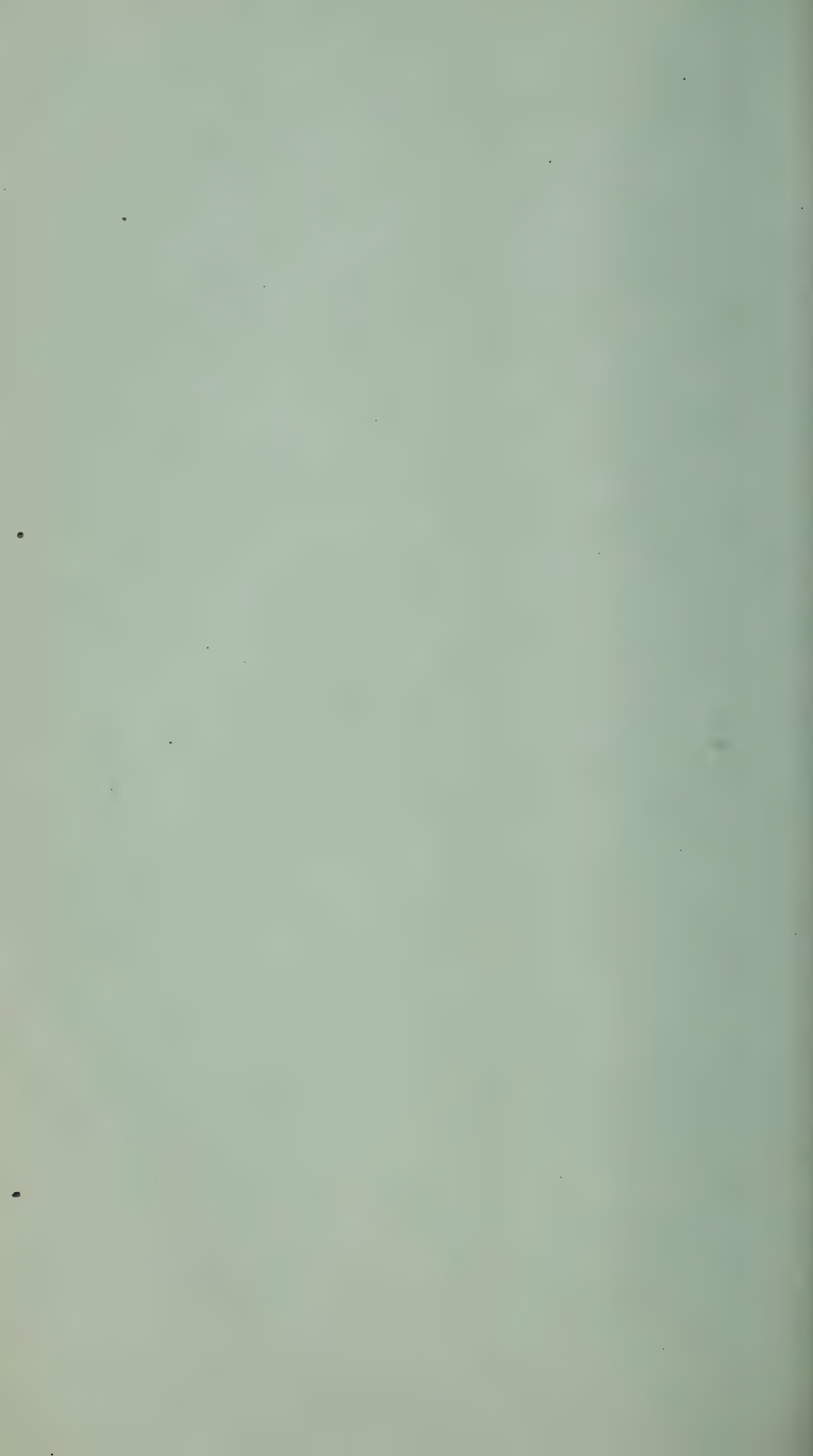
COMMENCING MARCH 5, 1888,

AND

ENDING NOVEMBER 30, 1888.

B.—Those who wish to receive the Announcement are requested to forward their Names and Addresses to the Dean.

SAN FRANCISCO:  
A. J. LEARY, PRINTER AND PUBLISHER,  
1888.



ANNOUNCEMENT  
OF THE  
COLLEGE OF DENTISTRY  
OF THE

UNIVERSITY OF CALIFORNIA.

FOR ITS

SEVENTH SESSION,

COMMENCING MARCH 5, 1888,

AND

ENDING NOVEMBER 30, 1888.

N. B.—Those who wish to receive the Announcement are requested to forward their Names and Addresses to the Dean.

SAN FRANCISCO:  
A. J. LEARY, PRINTER AND PUBLISHER,  
1888.

## CONTENTS.

DIRECTORY.....	3
BOARD OF REGENTS.....	4
FACULTY.....	5
ANNOUNCEMENT.....	6
COMMENCEMENT OF TERM.....	8
SCHEDULE OF STUDY.....	8
REQUIREMENTS FOR ADMISSION.....	8
DATE OF PRELIMINARY EXAMINATION.....	9
JUNIOR EXAMINATIONS.....	9
REQUIREMENTS FOR GRADATION.....	9
FEES.....	10
TEXT-BOOKS.....	10
OUTLINE OF COURSE OF STUDY.....	11
EXAMINATION FOR ADMISSION.....	15
STUDENTS OF 1887.....	17
GRADUATES.....	18
COMMENCEMENT EXERCISES.....	20
ACADEMIC SENATE.....	21
LITERARY AND SCIENTIFIC DEPARTMENTS.....	25
MEDICAL DEPARTMENT.....	27
PHARMACEUTICAL DEPARTMENT.....	28
LAW DEPARTMENT.....	30

## OFFICE DIRECTORY.

---

### IN BERKELEY.

The office of the PRESIDENT is Room No. 2, *North Hall*.

The office of the RECORDER is Room No. 28, *North Hall*.

The office of the SECRETARY OF THE BOARD OF REGENTS is in *South Hall*.

The office of the LAND AGENT is in *South Hall*.

The office of the MANAGER OF THE UNIVERSITY PRINTING PRESS is No. 27  
*North Hall*.

---

### IN SAN FRANCISCO.

The office of the REGISTRAR OF THE COLLEGE OF LAW is No. 230 Mont-  
gomery Street.

Lectures in the COLLEGE OF LAW are delivered in the Assembly Room of the  
Society of Pioneers, No. 808 Montgomery street.

The office of the DEAN OF THE MEDICAL FACULTY is No. 603 Merchant  
street.

THE COLLEGE OF MEDICINE is situated on Stockton street, between Chestnut  
and Francisco, in Toland Hall.

The Medical and Surgical Clinics of the COLLEGE OF MEDICINE are held at  
the City and County Hospital, Twenty-second street and Potrero avenue.

The Dispensary Clinics of the COLLEGE OF MEDICINE are held in Toland Hall.

The office of the DEAN OF THE DENTAL FACULTY is No. 131 Post street.

Lectures in the COLLEGE OF DENTISTRY are delivered in Toland Hall, Stock-  
ton street, between Chestnut and Francisco.

The office of the DEAN OF THE COLLEGE OF PHARMACY is 529 Market street.

The COLLEGE OF PHARMACY is situated at No. 113 Fulton street, between Polk  
street and Van Ness avenue.

The office of the BOARD OF REGENTS is in Mechanics' Institute Library, 31  
Post street.

The office of the TREASURER of the BOARD OF REGENTS is 310 Sansome street.



# UNIVERSITY OF CALIFORNIA.

## BOARD OF REGENTS.

### EX OFFICIO REGENTS.

HIS EXCELLENCY R. W. WATERMAN,	- - -	SACRAMENTO.
<i>Governor, ex officio President of the Board.</i>		
HIS HONOR S. M. WHITE,	- - -	LOS ANGELES.
<i>Lieutenant-Governor.</i>		
HON. W. H. JORDAN,	- - -	OAKLAND.
<i>Speaker of the Assembly.</i>		
HON. IRA G. HOITT,	- - -	SACRAMENTO.
<i>State Superintendent of Public Instruction.</i>		
HON. L. U. SHIPPEE,	- - -	STOCKTON.
<i>President of the State Agricultural Society.</i>		
P. B. CORNWALL, ESQ.,	- - -	SAN FRANCISCO.
<i>President of the Mechanics' Institute.</i>		
EDWARD S. HOLDEN, LL. D.,	- - -	SAN FRANCISCO.
<i>President of the University.</i>		

### APPOINTED REGENTS.\*

NAME.	ADDRESS.	TERM EXPIRES.
REV. HORATIO STEBBINS, D.D.,	1609 Larkin St., San Francisco,	- 1894
HON. JOHN S. HAGER, LL. D.,	Palace Hotel, San Francisco,	- 1894
HON. J. WEST MARTIN,	Oakland,	- 1898
HON. JOHN F. SWIFT,	32 O'Farrell St., San Francisco,	- 1888
A. S. HALLIDIE, ESQ.,	329 Market St., San Francisco,	- 1892
HON. WILLIAM T. WALLACE,	799 Van Ness Avenue, San Francisco,	1902
JOHN L. BEARD, A.M.,	Centreville,	- 1892
HON. A. L. RHODES,	430 California St., San Francisco,	- 1888
HON. T. GUY PHELPS,	Belmont,	- 1896
I. W. HELLMAN, ESQ.,	Los Angeles,	- 1902
GEORGE T. MARYE, JR., LL. B.,	234 Montgomery St., San Francisco	- 1898
ARTHUR ROGERS, A.B. Ph.B.,	309 Montgomery St., San Francisco	- 1890
GEORGE J. AINSWORTH, Ph.B.	North Temescal,	- 1900
D. M. DELMAS, A.M.,	327 Pine St., San Francisco,	- 1900
ALBERT MILLER, ESQ.,	S. F. Savings Union, San Francisco	- 1890
COLUMBUS BARTLETT, ESQ.,	12 Montgomery St., San Francisco,	- 1896

J. H. C. BONTÉ, D.D., Secretary, Berkeley.

Regular meetings of the Board of Regents are held six times a year, viz., on the second Tuesday of September, November, January, March and May, and on the Tuesday preceding the last Wednesday in June.

\* In the order of original appointment.

# UNIVERSITY OF CALIFORNIA.

## COLLEGE OF DENTISTRY.

TOLAND HALL STOCKTON STREET, BELOW CHESTNUT SAN FRANCISCO, CAL.

### FACULTY.

E. S. HOLDEN, LL.D., President of the University, and ex-officio President of the Faculty.

JOSEPH LECONTE, M.D., LL.D., Honorary Professor of Biology.

C. L. GODDARD, A.M., D.D.S., Dean, and Professor of Mechanical Dentistry.

W. E. TAYLOR, M.D., Professor of the Principles and Practice of Surgery.

A. L. LENGFELD, M.D., Professor of Materia Medica and Medical Chemistry.

WM. B. LEWITT, M.D., Professor of Anatomy.

MAURICE J. SULLIVAN, D.D.S., Professor of Dental Pathology and Therapeutics.

L. L. DUNBAR, D.D.S., Professor of Operative Dentistry and Dental Histology.

A. A. D'ANCONA, A.B., M.D., Professor of Physiology.

### DEMONSTRATORS.

M. F. GABBS, D.D.S., and F. J. SAXE, A.M., D.D.S., Demonstrators of Operative Dentistry.

CHARLES BOXTON, D.D.S., Demonstrator of Mechanical Dentistry.

### ASSISTANTS.

WINSLOW ANDERSON, M.D., Assistant to the Chair of Materia Medica and Medical Chemistry.

R. E. PAYNE, D.D.S., Assistant Demonstrator of Mechanical Dentistry.

JOHN M. WILLIAMSON, M.D., Demonstrator of Anatomy.

HENRY L. TEVIS, M.D., Assistant Demonstrator of Anatomy.

### CLINICAL INSTRUCTORS.

H. C. DAVIS, L.D.S.....San Francisco.

B. W. HAINES, M.D., D.D.S.....San Francisco.

W. B. KINGSBURY.....Santa Clara, California.

A. F. McLAIN, M.D., D.D.S.....Santa Rosa, California.

THOS. MORFFEY, D.D.S.....San Francisco.

W. E. PRICE, D.D.S.....San Francisco.

MAX SICHEL.....San Francisco.

L. VAN ORDEN, M.D.....San Francisco.

H. E. KNOX, D.D.S.....San Francisco.

WILLIAM WOOD.....Sacramento.

C. L. GODDARD, Dean.

131 Post Street, San Francisco.

## ANNOUNCEMENT.

---

On the 5th of March, 1888, the College of Dentistry of the University of California will commence its Seventh Annual Session. The work of the past will speak for itself, and we feel that a great future is before us. The Faculty promise individually and collectively to do their utmost to further the cause of professional education and advancement.

Although among the youngest of the Dental Colleges of the United States, which now number twenty-five or more, it has always maintained a high standard.

It was the second College in the United States to adopt a nine months course of lectures.

It was the third College to require three years study before graduation.

It was the third College to require a preliminary examination.

The plan of giving a long term of lectures, and requiring a longer time of study, was adopted because the Faculty was fully convinced that two years, study, with two courses of five or six months each, could not really fit students for actual practice; now more time is given for practice in the Infirmary, and for the study of text books, which is a matter of great importance.

The College was started through the courtesy of the College of Medicine of the University of California, to which we have been indebted for lecture and clinic rooms, and for many opportunities afforded our students to attend Medical Lectures.

As no financial aid or support has been given by the State, and the amount of subscription was small, the Faculty has had to depend upon the fees of students for providing necessary equipment, and maintaining the College after it was established.

At a meeting held November 5, 1884, a resolution was unanimously adopted by the Academic Senate of the University of California, which provides that the Colleges of Medicine, Pharmacy and Dentistry, may have a free course of lectures at Berkeley, consisting of Botany, systematic and structural; Comparative Anatomy and Physiology; Biology, with laboratory training; Organic and Inorganic Chemistry, with laboratory work; Microscopic Technology, and Physiological and Pathological Histology; Physics, with laboratory work, and Freehand Drawing. This course is not compulsory, but students who take the three-years' course of study in the Dental Department may have the privilege of spending as much of either the first or second year of the three devoted to the study of Dentistry as they may desire, in taking this course at Berkeley, for which they will be accredited the same as though they spent their whole time at the College of Dentistry. Through this wise and liberal action of the Academic Senate, the opportunity is provided for those students of intellectual capacity and professional ambition to attain that technical knowledge and practical laboratory training and experience so necessary to the scientific investigation of the ætiology of disease. It is well known that but few dental or medical students, or even practitioners, have much knowledge of Histology or Microscopic Technology. When this is the case

with a student, it is impossible for him to comprehend anything he may hear upon the subject, or to observe the histological relations of normal and abnormal organic tissues. With the advantage of the special course at Berkeley, the students in the Dental Department of the University of California are enabled to carry their studies to whatever extent they may elect—free.

Joseph LeConte, M. D., LL. D., Honorary Professor of Biology, will deliver a special course upon that subject before the class. His eminent ability as a scholar and lecturer cannot help attracting the attention of the scientific men in our profession to the dignity of the school, and the character of its curriculum, as well as making a marked impression on the discipline and culture of the classes.

While the Undergraduate Departments of the University are clustered at Berkeley, the Professional Colleges are for convenience of Clinical Study conducted wholly in San Francisco.

The College is beautifully situated, well ventilated and lighted, and admirably constructed and arranged for the work in hand. There is always an abundance of clinical material, both operative and mechanical, as well as pathological, drawn from a heterogeneous population of between 250,000 and 300,000. There are seven Professors in the College, besides a corps of able and earnest demonstrators, both operative and mechanical. The Didactic Professors deliver two lectures per week each, as will be seen on the schedule of instruction.

Wednesday afternoon of each week is set apart for Clinical Instructors, and two or more are required to operate each week during the term.

The main lecture hall of the College is capable of seating 500 persons. The clinical amphitheater is about equally capacious.

The museum contains an extensive collection of specimens and preparations.

The dissecting room is fitted up with all the modern improvements.

The laboratory is replete with all chemicals and apparatus necessary for practical teaching.

A suite of apartments in the building is set apart for the dispensary clinics.

There are two large and convenient dental operating rooms, with windows of extra width and height, thus giving light that is unsurpassed. They are furnished with Morrison, Archer and Cycloyd chairs, and handsome operating stands, which will be assigned to students in the order of their matriculation.

The Dental Laboratory is commodious, and furnished with benches, lathes, furnaces for melting, forge, rolling mill, continuous-gum furnaces, and all other requisites for through work. Each student is required to furnish his own instruments and tools, and will be provided with a separate drawer in which they can be securely locked; also with a separate bench, provided with gas for heating purposes.

Those who have instruments and laboratory tools and appliances should bring them; those who have not, are advised to defer purchasing till they arrive. Lists will be furnished when desired. During the hours devoted to operative or mechanical dentistry, Professors or competent Demonstrators will be present to assign patients to students, and superintend and assist them in their operations.

Both the Medical and Dental Departments of the University of California, *unlike corresponding Colleges of the Eastern States*, have their regular term in the spring and summer.



## SESSION OF 1888.

Term commences March 5, 1888, and closes November 30, 1888.

SCHEDULE OF STUDY.					
ORDER OF LECTURES AND CLINICS.					
HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.
9 A. M. till 10 A. M.	CLINIC, 9 to 11, Operative Dentistry, Dr. SAXE.	CLINIC, 9 to 12, Operative Dentistry, Dr. GABBS.	Dental Pathology and Therapeutics, Prof. SULLIVAN.	CLINIC, 9 to 12, Operative Dentistry, Dr. SAXE.	CLINIC, 9 to 11, Operative Dentistry, Dr. GABBS.
10 A. M. till 11 A. M.			LECTURE, Chemistry, Prof. LENGFELD.		
11 A. M. till 12 M.			LECTURE, Surgery, Prof. TAYLOR.		
	LECTURE, Chemistry, Prof. LENGFELD.				LECTURE, Surgery, Prof. TAYLOR.
12 M. till 1 P. M.	CLINIC, 12 to 4, Mechanical Dentistry, Dr. BOSTON.	CLINIC, 12 to 3, Mechanical Dentistry, Dr. PAYNE.	CLINICAL INSTRUCTORS, from 2 to 5.	CLINIC, 12 to 3, Mechanical Dentistry, Dr. PAYNE.	CLINIC, 12 to 4, Mechanical Dentistry, Dr. BOSTON.
1 P. M. till 2 P. M.					
2 P. M. till 3 P. M.					
3 P. M. till 4 P. M.		LECTURE, Physiology, Prof. D'ANCONA.		LECTURE, Physiology, Prof. D'ANCONA.	
4 P. M. till 5 P. M.	LECTURE, Mechanical Dentistry, Prof. GODDARD.	LECTURE, Anatomy, Prof. LEWITT.		LECTURE, Anatomy, Prof. LEWITT.	LECTURE, Mechanical Dentistry, Prof. GODDARD.
5 P. M. till 6 P. M.	LECTURE, Operative Dentistry, Prof. DUNBAR.	LECTURE, Dental Pathology and Therapeutics, Prof. SULLIVAN.	DISSECTING.	DISSECTING.	LECTURE, Operative Dentistry, Prof. DUNBAR.
SATURDAY, from 9 A. M. to 12 M.					
HOSPITAL CLINICS,					
MEDICAL AND SURGICAL.					

## REQUIREMENTS FOR ADMISSION.

Every candidate for admission must be eighteen years of age, must present to the Faculty satisfactory evidence of a good moral character, and must be examined as to his previous education and fitness to appreciate the technical study of Dentistry. The examinations will be chiefly in writing; and will embrace the following subjects, viz.:

- 1—Arithmetic.
- 2—Geography.
- 3—English Grammar and Composition.
- 4—United States History.
- 5—Natural Philosophy. (Refer to Avery's Natural Philosophy, Peck's Gannot's Introductory Course in Natural Philosophy, or an equivalent.)
- 6—Elementary Chemistry. (Refer to Mead's Chemical Primer, Elliot and Storer's Chemistry, Avery's Chemistry, or an equivalent.)



He shall subscribe to Article II., Section 3, of the Code of Ethics of the American Dental Association.\*

No matriculation examination will be required of those who have passed the entrance examination of the University of California, or of any other recognized college or University, nor of graduates of any recognized academy or high school, nor of those holding teachers' certificates.

In order to secure a release from this examination, the candidates must present his diploma or certificate of examination or graduation.

#### PRELIMINARY EXAMINATION.

The preliminary examination for the Session of 1888 will be held in San Francisco, at the College building, (Toland Hall), Stockton street, near Francisco, Friday, March 2nd, at 9 o'clock A. M. Students desiring to present themselves at this examination will please call previously at the office of the Dean, 131 Post street.

For further information, see the latter pages of this Announcement.

#### THREE YEARS STUDY.

The course of study and instruction is divided into three years—Freshman, Junior and Senior.

Students who present certificates of one year's study with a preceptor, will be admitted to the Junior Class. These certificates must be made out on blanks, which may be obtained from the Dean.

#### JUNIOR EXAMINATIONS.

At the end of the Junior year students will be examined in Anatomy, Physiology, Chemistry, (or Materia Medica), Histology and Mechanical Dentistry, and those who are qualified will receive certificates of admission to the Senior Class.

#### REQUIREMENTS FOR GRADUATION.

The candidate for the degree of Doctor of Dental Surgery must have attained the age of twenty-one years, and be of good moral character.

He shall have passed a satisfactory examination, both oral and written.

He shall have studied Dentistry *three* years, including the time spent in attending lectures.

He shall have attended two full courses in the Dental Department of the University of California, or one year in some other reputable Dental College, and the second or last in this College.

He shall again subscribe to Article II., Section 3, of the Code of Ethics of the American Dental Association.

He *may* write an original thesis upon some subject pertaining to Dentistry or Medicine.

The written examination is required in lieu of a thesis.

The candidate is required to dissect at least two parts. He must treat thoroughly some patient, requiring all the usual dental operations, and bring such patient before the Professors of Operative Dentistry and Dental Pathology and Therapeutics. He must also take up at least one artificial case, and, after it is completed, bring his patient before the Professor of Mechanical Dentistry at least 30

\*N. B.—The object of this requirement is to prevent students from committing unprofessional acts during their collegiate course.

days before the close of the term. He must also prepare a specimen case, to be deposited in the College collection, and present the same to the Professor of Mechanical Dentistry before the first of November. The operating must be performed and the work on the artificial cases done, at the College building, and exclusively by the applicant for the degree.

Graduates in medicine may apply for the Degree of Doctor of Dental Surgery after having had two full years of practical instruction or experience in dentistry, one year of which, including one course of lectures, must be spent in the Dental Department of the University of California.

After these requirements have been complied with, upon the recommendation of the Faculty and approval of the Board of Regents, the candidate shall receive the Degree of Doctor of Dental Surgery.

### FEES.

The Matriculation Fee will be (paid once) .....	\$ 5 00
Tuition, 1st year.....	120 00
Tuition, 2d year.....	120 00
Tuition, 3d year....	Free.
Fee of Demonstrator of Anatomy, each year. ....	10 00
Diploma Fee.....	30 00

### TEXT BOOKS.

The following books will be needed during the course of study. Students are advised to procure at least the first six at the beginning of the Junior year, and to add the others before the Senior year.

- 1—Dental Dictionary, Harris, or Medical Dictionary, Dunglison or Thomas.
- 2—Anatomy, Gray, Quain, Holden.
- 3—Physiology, Dalton or Flint.
- 4—Mechanical Denistry, Richardson or Harris.
- 5—Operative Dentistry, Taft or Harris.
- 6—Dental Chemistry, Mitchel.
- 7—Dental Anatomy, Tomes.
- 8—Oral Deformities, Kingsley.
- 9—Dental Metallurgy, Essig.
- 10—Dental Materia Medica and Therapeutics, Gorgas or Stockens.
- 11—Surgery, Ashurst or Bryant.
- 12—Therapeutics, Wood, Biddle or Bartholow.
- 13—Dental Pathology, Wedl.
- 14—Chemistry, Lloyd or Barclay.
- 15—Materia Medica U. S. Dispensatory, or National Dispensatory.

### ADDITIONAL BOOKS FOR REFERENCE.

- Oral Surgery, Garretson.  
 American System of Dentistry, Litch.  
 Histology, Stricker, Frey, Beal or Wythe.  
 Microscopical Morphology, Heitzman.  
 Pathology, Wagner.

---

\*When " or " is used between authors, students may choose either.

## OUTLINE OF THE COURSE OF STUDY.

### BIOLOGY.

Prof. Joseph Le Conte will deliver a series of lectures on the Correlation of Vital with Physical and Chemical Forces ; also upon the Homologies of the Vertebrate Skeletons.

### OPERATIVE DENTISTRY AND DENTAL HISTOLOGY.

The course of instruction in this department will be as comprehensive and thorough as improved appliances and methods can make it, and will embrace both the Didactic and Clinical courses.

Intra and extra uterine development of the teeth will be fully considered from the *primary* germs to the final loss of the permanent teeth.

Recent Microscopical investigations in Dental Histology will be fully illustrated with new slides, Micro-photographs, and every efficient aid to an intimate knowledge of Minute Dental Structure.

It will be the aim of the Department to make the entire course of lectures from the chair as practical as possible by a comparison of old and new methods, with a complete analysis of recent innovations in operative procedure.

### MECHANICAL DENTISTRY.

The instruction in Mechanical Denistry will embrace everything necessary to enable the dentist successfully to supply substitutes for lost dental organs.

Special reference will be made to the principles involved in the restoration of the natural functions of the teeth, namely : mastication, enunciation, and expression of the features, keeping in view always the health and the future usefulness of the living parts.

The construction of artificial dentures on both plastic and metallic bases will be thoroughly explained and illustrated, and the advantages and disadvantages of the different bases will be carefully studied.

Instruction in Dental Metallurgy will include lectures on the various metals used in the laboratory and as bases for artificial dentures, and especially the alloying and refining gold and silver.

The various mechanical means employed in correcting irregularities will be explained and illustrated by means of a large number of drawings, appliances and casts of practical cases.

### PHYSIOLOGY.

The lectures in this department, by Professor D'Ancona, embrace a consideration of both General and Special Physiology, including all that has been developed up to the present time, and are illustrated by the largest and most complete series of colored drawings in the United States, prepared exclusively for these lectures ; besides which, the vast collection of preparations and drawings of the Scientific Department at Berkely are at the command of the Professor. Vivisections are practiced when necessary to demonstrate principles, and the microscope is freely used for illustrating important facts and principles.

## SURGERY.

Professor Taylor delivers two lectures each week on the Art and Science of Surgery. The more recent views on the management of surgical conditions, and the appliances devised for their relief, are particularly dwelt upon, and illustrated with drawings and models when necessary. This course will include a series of lectures upon Operative Surgery, with demonstrations on the cadaver. The student will be drilled in the manipulation of instruments used in the various operations.

In addition to his usual course of lectures on Surgery, he will pay particular attention to surgical diseases, and injuries of the head, face, jaws and mouth.

---

## CHEMISTRY AND MATERIA MEDICA.

Professor Lengfeld will spare no effort to make the course in Chemistry and Materia Medica thoroughly practical and instructive. All important principles are illustrated by means of suitable philosophical, chemical and other apparatus, and facts and theories are presented in a clear and comprehensive manner.

Special attention will be given to Prescription Writing, Urinary and Salivary Analysis and Toxicology, and to the nature, origin, physical and chemical properties of the various remedies officinal in the United States Pharmacopœia.

Dr. Winslow Anderson, assistant to the chair of Materia Medica and Medical Chemistry, will conduct the Laboratory investigations, including qualitative analysis and recitations, at least two hours each week during the term.

The first course students will have practical instruction in the chemical laboratory three hours each week.

---

## ANATOMY.

Professor W. B. Lewitt's lectures on Anatomy are illustrated fully by the cadaver, and by both wet and dry preparations, models, manikins and drawings, and include a course on general, special and topographical anatomy, thus preparing the student for active surgical practice, as well as giving him a thorough knowledge of the relations of organs. Before each lecture a short examination is held on the subject of the preceding lecture.

---

## DENTAL PATHOLOGY AND THERAPEUTICS.

The lectures delivered by the incumbent of this Chair will embrace a full and comprehensive course on the following topics—

1. GENERAL PATHOLOGY—In which will be discussed those general aspects of disease with which it is necessary to be acquainted, in order to be able to understand the nature of any departure from health, causes of disease, symptoms, diagnosis, prognosis, temperaments, pathology of anæsthetics, irritation, determination, congestion, inflammation and its terminations—effusion, supuration, ulceration, gangrene, sloughing, morbid growths, etc.

2. SPECIAL PATHOLOGY—In which a critical examination will be made into the special causes of dental decay; dental hygiene and prophylaxis; diseases of the enamel—of the dentine; diseases of the dentinal pulp—together with the causes of alveolar abscess—its stages and results; exostosis of the roots and alveoli; necrosis and exfoliation; disease of the antrum; tumors, benign and malignant, disease of the mucous membrane.



Neuralgia and other nervous affections will receive such attention as their importance may demand, and, besides, there will be presented such other special diseases as may in any degree be of interest to the Dental Practitioner, such as scurvy, scrofula, rachitis, and other diseases of the bones.

3. GENERAL PRINCIPLES OF THERAPEUTICS—Under which head the general application of medicines will be noticed—their action, constitutional and topical.

4. SPECIAL THERAPEUTICS—In connection with Dental Materia Medica, is incidentally related thereto.

---

### THE DENTAL LABORATORY.

The Dental Laboratory will be in charge of the Demonstrators of Mechanical Dentistry, who will assign patients to students, and give practical instruction in preparing the mouth for the insertion of artificial teeth, taking impressions, selecting and arranging teeth, and the construction of artificial dentures on bases of vulcanite, celluloid, silver, gold, etc. ; also, in alloying, refining, and preparing the metals for use. Special attention will be given to continuous gum work. On account of the length of the term, the opportunities for practice in correcting irregularities of the teeth will be unsurpassed, and will receive their share of attention.

---

### THE DENTAL INFIRMARY.

The Operating Department will be under the immediate supervision of the Demonstrators of Operative Dentistry.

The rooms will be open during the forenoons of Monday, Tuesday, Wednesday, Thursday and Friday, when all practical matters pertaining to Operative Dentistry will be fully dealt with by the Demonstrators, one of whom will always be present. As there is always an excess of clinical material on hand, and there are 648 hours per term, (including three hours each Wednesday afternoon), devoted to the practical consideration of diseases of the teeth, and the adjacent parts, it is not difficult to estimate the advantages the students have in this department.

---

### PRACTICAL ANATOMY.

The dissecting-room of the University is spacious, well ventilated, well lighted from above, and provided with every convenience. It is open throughout the year under the superintendence of the Professor of Anatomy and the Demonstrator of Anatomy. A full supply of material is always procurable at small cost, and is thoroughly preserved from decomposition. When the dissections are conducted in a diligent manner, the student is furnished by the Demonstrator with certificates stating the amount and part dissected. The Dissecting Ticket (\$10) is good for the whole year, from January first to December 31st.

---

### CLINICAL INSTRUCTION.

During the course, Wednesday afternoons will be devoted to clinical lectures and operations by the Professors and Clinical Instructors.



### HOSPITALS.

All students in Dentistry will have all the facilities and opportunities enjoyed by the medical students in hospital practice and observation. They will have the freedom, as above represented, of the City and County Hospital, City Receiving Hospital, and San Francisco Female Hospital.

Medical and Surgical clinical lectures are given by the Professors of the Medical Department of the City and County Hospital, Tuesdays, Thursdays and Saturdays, from 9 to 11 A. M.

For further particulars on this subject, see Medical Department Announcement.

---

### D MUSEUM.

A nucleus has been formed from which it is hoped a large library and museum will grow. All members and friends of the profession are invited to contribute books, pamphlets and journals, charts, anatomical, physiological and pathological specimens, casts of deformities and irregularities of the teeth and associate parts, or anything that will be useful or instructive.

These contributions will be placed in the Library and Museum, and marked with the name of the donor, if desired.

C. L. GODDARD, Dean of the Faculty.  
131 Post street, San Francisco, Cal.

---

N. B.—BOARDING. The expense of living in the City of San Francisco is very reasonable. Good board, with room rent, may now be procured at the low rate of \$5 per week, at a convenient distance from the College building. There is a free Public Library in San Francisco, of which students may have full benefit.

## EXAMINATION FOR ADMISSION.

Inquiry having so frequently been made concerning the examination for admission to this College, it is deemed well to append as samples the following questions, given here at the beginning of the Session of 1887. The answers to these are required in writing; in some instances an oral examination is also made. It is quite probable that each year a little advance will be made in the character of these examinations. See requirements for admission on page 28.

Write your name in full.

Give date of birth—Day, month, year.

Where do you now reside? Town, County, State.

Where were you born? Town, County, State.

What educational advantages have you had? Name the schools you have attended, and the time spent in each?

What branches have you studied, and to what extent have you pursued them?

In what occupation have you been engaged other than that of student, and how long were you thus employed?

When did you commence studying dentistry? Month, year.

How many months of actual medical and dental study have you had to date?

Have you attended a full course at any medical or dental school? If so, where and when?

With what preceptor or preceptors have you studied? Give name and present residence.

Write an English composition, of at least 200 words, upon a subject of the examiner's selection.

---

### ARITHMETIC.

What is notation and numeration?

How many grains in a pound troy?

How many grains in a pound avordupois?

How many litres in a quart?

A person owning three-fifths of a piece of property, sold 15 per cent. of it, what part did he then own?

Express three-sevenths of a day in hours, minutes and seconds. One-fifth of a bushel is what part of a peck?

At  $\frac{1}{8}$  per cent. discount, what should be the face of a draft to cover a debt of \$1,785?

Cubic root of 907,299?

---

### GEOGRAPHY.

What is the meaning of the word Geography?

Give a description of the natural features of the Earth's surface.

Name two of the largest Islands in the World, and the Government of each.

Give the name, height and location of the highest mountain in North America.

Give the name, height and location of the highest mountain in the World.

---

### GRAMMAR.

What is Language?

What is the difference between a Proposition and a Phrase?

How are sentences classified?

Correct the following sentence—"The King dismissed his Minister without any inquiry who never before did so unjust an action."

Correct and define the following words—Suferer, Ocupied, Comerse, Fierce, Wate, Supuration, Signefy, Competent, Indefenate, Houll, Saleing, Cloroform.

---

### HISTORY.

What country has the oldest authentic history?

Who were the five great Generals of modern times?

Name some of the leading Scientific Authors of the last century.

Name six of the leading authors of this century, Literary and Scientific.

Name some of the most important productions of those authors.

---

### NATURAL PHILOSOPHY.

Define natural Philosophy.

What is matter?

What is force?

What is the difference between cohesion and adhesion?

How are waves produced?

---

### CHEMISTRY.

Define Chemistry.

Name some of the principal metals and metalloids.

Define the difference between atoms and molecules.

Write the reaction for the preparation of Chlorine, and give Physical and Chemical properties.

Define an acid, a base, and salt.

## STUDENTS OF THE SESSION OF 1887.

## SENIOR CLASS.

STUDENT.	RESIDENCE.	PRECEPTOR.
Davis, Edward Livingston	San Jose, Cal.	A. O. Hooker
Hodgen, Joseph Dupuy	Woodland, Cal.	I. N. Hodgen, M. D.
Jones, Harold McKean	Clovedale, Cal.	H. E. Knox, D. D. S.
Maldonado, Edward	San Francisco, Cal.	S. E. Goe, D. D. S.
Post, Charles Edgar	San Francisco, Cal.	L. Van Orden, M. D.
Payne, Robert Eugene	San Francisco, Cal.	R. M. Thomas
Rodolph, George Walter	Oakland, Cal.	J. H. Hatch, D. D. S.
Regensberger, Arthur Theodore	San Francisco, Cal.	L. A. Lee
Rodden, George Frederick	San Rafael, Cal.	H. B. Thomas
Simpson, Jennie Martha	Sacramento, Cal.	O. L. Gordon
Shuey, Granville Eugene	Danville, Cal.	J. S. Knowlton
Westphal, Otto Frank	San Francisco, Cal.	Sylvester & Sublett

## JUNIOR CLASS.

Boys, Henry Sanford	San Francisco, Cal.	C. H. Bosanco, D. D. S.
Chapman, Ira Hart	San Francisco, Cal.	H. Sylvester, Jr., D. D. S.
Drew, Fred M.	Port Gamble, W. T.	C. W. Hunt
Fisher, Frank Holmes	Oakland, Cal.	L. L. Dunbar, D. D. S.
Gambitz, Milton Ross	San Francisco, Cal.	G. B. Lemon, M. D.
Hultberg, Frank Lewis	San Francisco, Cal.	J. A. W. Lundborg
Jackett, Samuel Alston	Oakland, Cal.	I. S. Halsey
Kistler, Joseph	San Francisco, Cal.	J. Schneider, D. D. S.
Lomaña, Rafael	San Francisco, Cal.	E. O. Cochran, D. D. S.
Mankey, William George	San Francisco, Cal.	J. J. Birge
Shoaff, Walter Randall	San Francisco, Cal.	B. W. Haines, D. D. S.
Thort, Edward Nelson	San Francisco, Cal.	L. L. Dunbar, D. D. S.
Veston, Charles Sawtelle	Oakland, Cal.	A. Cornwall

## FRESHMAN CLASS.

NAME.	RESIDENCE.	PRECEPTOR.
Brooks, Frank A.	San Francisco, Cal.	College of Dentistry, U. of Cal.
Katayama, Atsuhika	Yokohama, Japan	K. Katayama.
Lesher, Willie Francis	San Francisco, Cal.	C. L. Goddard, D. D. S.
Lobley, Warren Guice	North Bloomfield, Cal.	College of Dentistry, U. of Cal.
Nash, Dorris	Nicolaus, Cal.	J. Schneider, D. D. S.
Raymond, Charles Seward	Oakland, Cal.	G. W. Cool, D. D. S.
Teza, Joseph Marion	San Francisco, Cal.	College of Dentistry U. of Cal.

## MATRICULATES NOT CLASSIFIED.

Garrison, John Albert.....	Forest Hill, Cal....	College of Dentistry, U. of Cal.
Perrault, Julian Thomas....	San Francisco, Cal..	College of Dentistry, U. of Cal.
Powell, Andrew, J.....	Haywards, Cal.....	College of Dentistry, U. of Cal.
Titcomb, Charles Bryant...	Oakland, Cal.....	A. Cornwall.
Seniors.....		12
Juniors.....		13
Freshmen.....		7
Matriculates.....		4
Total.....		36

## GRADUATES.

1882.

Thomas Watson Hall.....	Oakland, California.
Charles Wesley Hibbard.....	San Francisco, California.
Thomas Morffew.....	San Francisco, California.
Henry John Plomteaux.....	Oakland, California.
Charles Wesley Richards.....	San Francisco, California.
William Henry Stanley.....	San Francisco, California.
Gustave William Sichel, M.D.....	San Francisco, California.
August Van Crombrughe.....	San Francisco, California.

1883.

John Nelson Blood.....	Greenville, California
Charles Boxton.....	San Francisco, California
Maria Angelina Burch.....	Pescadero, California
Edward Overton Cochrane.....	San Francisco, California
Russell Hopkins Cool.....	Oakland, California
Milton Francis Gabbs.....	Sutter Creek, California
William Edmund Price.....	San Francisco, California

1884.

George Washington Cool.....	Oakland, California
John Michael Dunn.....	Oakland, California
Archibald Duncan Gleaves.....	Anderson, California
Robert Nicol.....	Archiestown, Scotland
Gustave Carl Rietzke.....	Kuhn, Germany
William Henry Simmons.....	Oakland California
Elmer Joseph Weldon.....	Vacaville, California

1885.

Henry Sylvester Bettis.....	San Francisco, California
George Botsford.....	Campbellton, Canada
Daniel Barratt Cate.....	Quincy, California
Nathaniel Thomas Coulson.....	Cornwall, England
Heorge Ihmer Drucker.....	San Francisco, California



William Ellis Fitzpatrick.....	Empire City, Nevada.
Walter Robert Henderson.....	Stockton, California.
John Adams Douglas Hutton.....	San José, California.
Franklin Pancoast.....	San Francisco, California.
Charles Theodore Rodolph.....	Oakland, California.
Frederick Judson Saxe, A.M.....	Santa Clara, California.
Joseph Schneider.....	Vallejo, California.
Henry Sylvester, Jr.....	San Francisco, California.

## 1886.

Harry Putnam Carlton.....	Oakland, California.
Hector Ludovic Couret.....	Sonora, Mexico.
Martin Joseph Dunn.....	Berkeley, California.
Nicholas Anton Givovich.....	Ragusa, Austria.
John Gow Humphrey.....	San Francisco, California.
Thomas Harvey Morris.....	Oakland, California.
William Cormack Reith.....	Sacramento, California.
Joseph Emil Sand.....	San Francisco, California.
Benjamin Franklin Simmons.....	Oakland, California.
William Oltman Stuttmeister.....	Oakland, California.
William Grover Sylvester.....	San Francisco, California.

## 1887.

Edward Livingston Davis.....	San Jose, California.
Joseph Dupuy Hodgen.....	Woodland, California.
Carold McKean Jones.....	Cloverdale, California.
Edward Maldonado.....	San Francisco, California.
Robert Eugene Payne.....	San Francisco, California.
Charles Edgar Post.....	San Francisco, California.
Arthur Theodore Regensburger.....	San Francisco, California.
George Frederick Roden.....	San Rafael, California.
George Walter Rodolph.....	Oakland, California.
Ninnie Martha Simpson.....	Sacramento, California.
Granville Eugene Shuey.....	Danville, California.
Alto Frank Westphal.....	San Francisco, California.

## COMMENCEMENT.

The sixth Comencement Exercises of the College of Dentistry of the University of California were held at Odd Fellows Hall, San Francisco, Cal., Tuesday, November, 29th, at eight o'clock P. M.

### ORDER OF EXERCISES.

Overture .....	Orchestra
Prayer .....	Rev. J. A. Cruzan
Music .....	Orchestra
Address on behalf of the Faculty .....	L. L. Dunbar, D.D.S.
Music .....	Orchestra
Conferring Degrees of Doctor of Dental Surgery .....	
.....	Edward S. Holden, L.L.D., <i>President of the University</i>
Music .....	Orchestra
Benediction .....	Rev. J. A. Cruzan

## ACADEMIC SENATE.

NOTE.—Divided into groups of Professors, Assistant Professors, Instructors, Lecturers and Assistants, and arranged alphabetically in each group.

EDWARD SINGLETON HOLDEN, LL.D., PRESIDENT., 120 Sutter Street,  
San Francisco.

*President of the University and Director of the Lick Observatory.*

WASHINGTON AYER, M.D., - - - 410 Kearny Street, San Francisco.  
*Professor of Hygiene.*

HERMANN HANS BEHR, M.D., - - - 509 Kearny Street, San Francisco.  
*Professor of Botany in the College of Pharmacy.*

JOHN H. C. BONTÉ, D.D. - - - - - University Grounds.  
*Professor of Legal Ethics, and Secretary of the Academic Senate.*

GEORGE WOODBURY BUNNELL, A.M., 1955 Telegraph Avenue, Oakland.  
*Professor of the Greek Language and Literature.*

SAMUEL BENEDICT CHRISTY, PH.B., Piedmont Avenue, near Bancroft  
Way, Berkeley.  
*Professor of Mining and Metallurgy.*

R. BEVERLY COLE, A.M., M.D., M.R.C.S., ENG., 723 Sutter Street, San  
Francisco.  
*Professor of Obstetrics and Gynecology.*

ALBERT STANBURROUGH COOK, PH.D., Corner Dwight Way and Au-  
dubon Street, Berkeley.  
*Professor of the English Language and Literature.*

ARNOLD ABRAHAM D'ANCONA, A.B., M.D., 1408 Howard Street, San  
Francisco.  
*Professor of Physiology.*

GEORGE DAVIDSON, PH.D., - - - 1117 Hyde Street, San Francisco.  
*Honorary Professor of Geodesy and Astronomy.*

LUIS LANE DUNBAR, D.D.S., - - - 500 Sutter Street, San Francisco.  
*Professor of Operative Dentistry and Dental Histology.*

STEPHEN J. FIELD, LL.D., - - - - - Washington, D. C.  
*Honorary Professor of Law.*

MELANCTHON, WILLIAMS FISH, M.D., 461 East Fourteenth Street,  
East Oakland.  
*Emeritus Professor of Physiology.*

CLARK LAMOTTE GODDARD, A.M., D.D.S., 131 Post Street, San Francisco.

*Professor of Mechanical Dentistry, and Dean of the Dental Faculty.*

FREDERICK A. GRAZER, PH.G., - 113 Fulton Street, San Francisco.  
*Professor of Materia Medica in the College of Pharmacy*

GEORGE F. E. HARRISON, 1st Lieut. Second U. S. Artillery, - Sausalito, Marin County, California.  
*Professor of Military Science and Tactics.*

SERRANNO CLINTON HASTINGS, LL.D., 636 Clay Street, San Francisco.  
*Professor of Comparative Jurisprudence.*

FREDERICK GODFREY HESSE, - - - P. O. Box 256, Oakland.  
*Professor of Mechanical Engineering.*

EUGENE WALDEMAR HILGARD, PH.D., LL.D., Bancroft Way, near Audubon Street, Berkeley.  
*Professor of Ariculture, Agricultural Chemistry, General and Economic Botany.*

GEORGE HOLMES HOWISON, LL.D., Corner Piedmont Avenue and Channing Way, Berkeley.  
*Mills Professor of Intellectual and Moral Philosophy and Civil Polity.*

ABRAHAM WENDELL JACKSON, JR., PH.B., Fourth University Cottage, Berkeley.  
*Professor of Mineralogy, Petrography and Economic Geology.*

F. B. KANE, M.D., M.R.C.S.I., - - 46 O'Farrell Street, San Francisco.  
*Professor of Clinical Medicine and Pathology.*

MARTIN KELLOGG, A.M., - Bushnell Street, near College Way, Berkeley  
*Professor of the Latin Language and Literature.*

W. WATT KERR, A.M., M.B., C.M., - - 522 Sutter Street, San Francisco.  
*Professor of Therapeutics.*

JOHN LÉCONTE, MD., LL.D., Corner Dwight Way and Mark Street Berkeley.  
*Professor of Physics.*

JOSEPH LÉCONTE, M.D., LL.D., Bancroft Way, near Piedmont Avenue Berkeley.  
*Professor of Geology and Natural History.*

ABRAHAM LEWIS LENGFELD, M.D., Corner Market and Powell Street San Francisco.  
*Professor of Materia Medica and Medical Chemistry.*

WILLIAM BREAKEY LEWITT, M.D., 605 Laguna Street, San Francisco  
*Professor of Anatomy.*

WILLIAM H. MAYS, M.D., - - - - - Stockton  
*Professor of Mental Diseases and Medical Jurisprudence.*

ROBERT A. McLEAN, M.D., - - - 603 Merchant Street, San Francisco  
*Professor of Clinical and Operative Surgery, and Dean of the Medical Faculty.*

V. F. McNUTT, M. D., M.R.C.P., EDIN., etc., 405 Montgomery Street, San Francisco.

*Professor of the Principles and Practice of Medicine.*

BERNARD MOSES, PH.D., Corner of Bancroft Way and Piedmont Avenue, Berkeley.

*Professor of History and Political Economy.*

GEORGE HERMAN POWERS, A.M., M.D., 215 Geary Street, San Francisco.

*Professor of Ophthalmology and Otology.*

ALBIN PUTZKER, - Corner Humboldt Avenue and Parker Street, Berkeley  
*Professor of the German Language and Literature.*

VILLARD BRADLEY RISING, M.E. PH.D., Corner Allston Way and Chapel Street, Berkeley.

*Professor of Chemistry.*

EDWARD WHEELOCK RUNYON, PH.G., 529 Market Street, San Francisco.  
*Professor of the Theory and Practice of Pharmacy, and Dean of the Pharmaceutical Faculty.*

GEORGE AUGUSTUS SHURTLEFF, M.D., - - - Stockton.  
*Emeritus Professor of Mental Diseases and Medical Jurisprudence.*

HARLES WILLIAM SLACK, PH.B, LL.B., 320 California Street, San Francisco.  
*Acting Professor of Municipal Law.*

RANK SOULE (United States Military Academy), 960 Oak Street, Oakland]  
*Professor of Civil Engineering and Astronomy.*

IRVING STRINGHAM, PH.D., Corner of Piedmont Avenue and Bancroft Way Berkeley.  
*Professor of Mathematics, Dean of the College of Letters and of the Colleges of Science.*

AURICE JAMES SULLIVAN, D.D.S., - 30 Post Street, San Francisco.  
*Professor of Dental Pathology and Therapeutics.*

BENJAMIN RALPH SWAN, M.D., - 310 Stockton Street, San Francisco.  
*Professor of Diseases of Children.*

WILLIAM EDWIN TAYLOR, M.D., - 215 Geary Street, San Francisco.  
*Professor of the Principles and Practice of Surgery.*

WILLIAM THEODORE WENZELL, M.D., PH.G., PH.M., 532 Market Street, San Francisco.  
*Professor of Chemistry in the College of Pharmacy.*

———, *Agassiz Professor of Oriental Languages and Literature.*

———, *Professor of Municipal Law.*

ORNELIUS BEACH BRADLEY, A.M., 668 Eighteenth Street, Oakland.  
*Assistant Professor of the English Language and Literature.*



- JOHN BERNARD CLARKE, PH.B., - 1736 Thirteenth Street, Oakland.  
*Assistant Professor of Mathematics.*
- GEORGE CUNNINGHAM EDWARDS, PH.B., 1568 Webster Street, Oakland.  
*Assistant Professor of Mathematics.*
- EDWARD LEE GREENE, PH.B., - Third University Cottage, Berkeley.  
*Assistant Professor of Botany.*
- WILLIAM CAREY JONES, A.M., Bancroft Way, near Dana Street, Berkeley.  
*Assistant Professor of History, and Instructor in Constitutional and Roman Law.*
- FREDERICK SLATE, B.S., Audubon Street, near Bancroft Way, Berkeley.  
*Assistant Professor of Physics and Mechanics.*
- WILLIAM WHITE DEAMER, A.B., - 523 Seventeenth Street, Oakland.  
*Instructor in Latin and Recorder of the Faculties.*
- HERMANN KOWER, C.E., - - - - - Fruit Vale.  
*Instructor in Instrumental Drawing.*
- CHARLES HERBERT LEVERMORE, PH.D., Durant Avenue, near Bow-  
ditch Street, Berkeley.  
*Instructor in History.*
- EDMOND CHARLES O'NEILL, PH.B., - 1403 Chestnut Street, Oakland  
*Instructor in Chemistry.*
- FELICIEN VICTOR PAGET, B.S., B.L., 813 Hyde Street, San Francisco  
*Instructor in the French and Spanish Languages.*
- WILLIAM GALT RAYMOND, C.E., Channing Way, near Fulton Street  
Berkeley.  
*Instructor in Civil Engineering.*
- JOACHIM HENRY SENGGER, A.B., - 2122 Steiner Street, San Francisco  
*Instructor in German and Greek.*
- FRANCIS HOVEY STODDARD, A.M., - - - - - Berkeley  
*Instructor in English.*
- DOUGLASS WILLIAM MONTGOMERY, M. D. - - - - -  
*Lecturer on Histology and Pathology, and Curator.*
- EDWARD JAMES WICKSON, A.M., Atherton Street, near Bancroft Wa  
Berkeley.  
*Lecturer on Practical Agriculture, and Assistant Superintendent of the Experi-  
mental Grounds.*
- JAMES P. HAMPSTON DUNN, B.S., - - - - - Claremont  
*Assistant in Chemistry.*

## UNIVERSITY OF CALIFORNIA.

## UNDERGRADUATE DEPARTMENTS AT BERKELEY.

## INCLUDING

- |   |                                       |
|---|---------------------------------------|
| 1. COLLEGE OF LETTERS.                          | 2. COLLEGE OF AGRICULTURE.            |
| (a) CLASSICAL COURSE.                           | 3. COLLEGE OF MECHANICS.              |
| (b) LITERARY COURSE.                            | 4. COLLEGE OF MINING.                 |
| (c) COURSE IN LETTERS AND<br>POLITICAL SCIENCE. | 5. COLLEGE OF CIVIL ENGIN-<br>EERING. |
|   | 6. COLLEGE OF CHEMISTRY.              |

## ACADEMIC STAFF.

- EDWARD S. HOLDEN, LL.D., President of the University.
- GEO. WOODBURY BUNNELL, A.M., Professor of the Greek Language and Literature.
- SAMUEL B. CHRISTY, PH.B., Professor of Mining and Metallurgy.
- ALBERT S. COOK, PH.D., Professor of the English Language and Literature.
- GEO. DAVIDSON, PH.D., Honorary Professor of Geodesy and Astronomy.
- STEPHEN J. FIELD, LL.D., Honorary Professor of Law.
- GEORGE F. E. HARRISON, (1st Lieut. 2d U. S. Artillery), Professor of Military Science and Tactics.
- FREDERICK G. HESSE, Professor of Mechanical Engineering.
- EUGENE W. HILGARD, PH.D., LL. D., Professor of Agriculture, Agricultural Chemistry, General and Economic Botany.
- GEORGE H. HOWISON, LL.D., Mills Professor of Intellectual and Moral Philosophy and Civil Polity.
- A. WENDELL JACKSON, JR., PH. B., Professor of Mineralogy, Petrography and Economic Geology.
- MARTIN KELLOGG, A.M., Professor of the Latin Language and Literature.
- JOHN LECONTE, M.D., LL.D., Professor of Physics.
- JOSEPH LECONTE, M.D., LL.D., Professor of Geology and Natural History.
- BERNARD MOSES, PH.D., Professor of History and Political Economy.
- ALBIN PUTZKER, Professor of the German Language and Literature.
- WILLARD B. RISING, M.E., PH.D., Professor of Chemistry.
- FRANK SOULÉ, (U. S. Military Academy), Professor of Civil Engineering and Astronomy.
- IRVING STRINGHAM, PH.D., Professor of Mathematics, Dean of the College of Letters and the Colleges of Science.
- C. B. BDADLEY, A.M., Assistant Professor of the English Language and Literature.
- JOHN B. CLARK, PH.B., Assistant Professor of Mathematics.
- GEORGE C. EDWARDS, PH.B., Assistant Professor of Mathematics.
- EDWARD LEE GREENE, Assistant Professor of Botany.
- WM. CAREY JONES, A.M., Instructor in United States History and Constitutional Law, and Instructor in Roman and Constitutional Law.

FREDERICK SLATE, Assistant Professor of Physics and Mechanics.  
 W. W. DEAMER, A.B., Instructor in Latin and Greek.  
 HERMANN KOWER, C.E., Instructor in Instrumental Drawing.  
 CHARLES H. LEVERMORE, PH.D., Instructor in History.  
 EDMOND C. O'NEILL, PH.B., Instructor in Chemistry.  
 F. V. PAGET, B.S., B.L., Instructor in the French and Spanish Languages.  
 WM. G. RAYMOND, C.E., Instructor in Civil Engineering.  
 J. HENRY SENDER, A.B., Instructor in German.  
 FRANCIS H. STODDARD, A.M., Instructor in English.  
 E. J. WICKSON, A.M., Lecturer on Practical Agriculture and Assistant Superintendent of the Experimental Grounds.

---

JAMES P. H. DUNN, B.S., Assistant in Chemistry.

---

#### ASSISTANTS AND OTHER OFFICERS.

MYER E. JAFFA, PH.B., First Assistant in the Viticultural Laboratory.  
 FREDERICK W. MORSE, PH.B., Assistant in the General Agricultural Laboratory.  
 GEORGE ELLEN COLBY, B.H.B., Second Assistant in the Viticultural Laboratory.  
 ADOLPH SOMMER, PH.G., Assistant in Chemistry.  
 HENRY E. DIKEMAN, B.S., Assistant in Physics.  
 FRANKLIN BOOTH, Student Assistant in the Metallurgical Laboratory.  
 JOSEPH A. SLADKY, Superintendent of the Machine Shop.  
 JOSEPH C. ROWELL, A.B., Librarian.  
 J. J. RIVERS, Curator of the University Museum.  
 FRANKLIN BOOTH, Student Assistant in the Metallurgical Laboratory.

# UNIVERSITY OF CALIFORNIA.

## MEDICAL DEPARTMENT.

### FACULTY.

- EDWARD S. HOLDEN, LL.D., President of the University.  
G. A. SHURTLEFF, M.D., Emeritus Professor of Mental Diseases and Medical Jurisprudence.  
M. W. FISH, M.D., Emeritus Professor of Physiology and Microscopy.  
R. BEVERLY COLE, A.M., M.D., M.R.C.S., Eng., Professor of Obstetrics and Gynecology.  
W. F. McNUTT, M.D., M.R.C.P., Edin., etc., Professor of Principles and Practice of Medicine.  
ROBERT A. McLEAN, M.D., Professor of Clinical and Operative Surgery, Dean.  
W. E. TAYLOR, M.D., Professor of the Principles and Practice of Surgery.  
F. B. KANE, M.D., F.R.C.S.I., Professor of Clinical Medicine and Pathology.  
A. L. LENGFELD, M.D., Professor of Materia Medica, and Medical Chemistry.  
WM. B. LEWITT, M.D., Professor of Anatomy.  
BENJAMIN R. SWAN, M.D., Professor of Diseases of Children.  
WILLIAM H. MAYS, M.D., Professor of Mental Diseases and Medical Jurisprudence.  
WASHINGTON AYER, M.D., Professor of Hygiene.  
GEORGE H. POWERS, A.M., M.D., Professor of Ophthalmology and Otology.  
WM. WATT KERR, A.M., M.B., C.M., Professor of Therapeutics.  
ARNOLD A. D'ANCONA, A.B., M.D., Professor of Physiology and Microscopy.
- 
- DOUGLAS W. MONTGOMERY, M.D., Lecturer on Histology and Pathology, Curator.  
JOHN M. WILLIAMSON, M.D., Demonstrator of Anatomy.
- 
- WINSLOW ANDERSON, M.D., Assistant to the Chair of Materia Medica and Medical Chemistry.  
JULES SIMON, M.D., Assistant to the Chair of Mental Diseases and Medical Jurisprudence.  
HENRY L. TEVIS, M.D., Assistant Demonstrator of Anatomy.

### COLLEGE DISPENSARY STAFF.

- C. G. KENYON, M.D., Surgery.  
JULES SIMON, M.D. Nervous Diseases.  
LUKE ROBINSON, M.D., M.R.C.P., Eng., Diseases of Women.  
H. W. DODGE, M.D., Medicine.  
D. W. MONTGOMERY, M.D., Diseases of the Skin.  
The Preliminary Term begins March 5th.  
The Regular Term begins June 4th.  
Graduates of Dental Colleges in good standing are admitted to the second year without examination.

ROBERT A. McLEAN, M.D., Dean,

603 Merchant Street, corner of Montgomery,

San Francisco, Cal.



# THE CALIFORNIA COLLEGE OF PHARMACY.

(Department of Pharmacy, University of California.)

## FACULTY.

EDWARD S. HOLDEN, LL.D., PRESIDENT OF THE UNIVERSITY OF CALIFORNIA.

WILLIAM T. WENZELL, M.D., PH.G.....PROFESSOR OF CHEMISTRY

HERMANN H. BEHR, M.D.....PROFESSOR OF BOTANY

FREDERICK A. GRAZER, PH.G.....PROFESSOR OF MATERIA MEDICA

EDWARD W. RUNYON, PH.G.....PROFESSOR OF PHARMACY

The Sixteenth Annual Course will begin April 3d, 1888, and continue to October 1st of the same year. Lectures will be delivered on Chemistry, Materia Medica, Botany, Theoretical and Practical Pharmacy. Arrangements have been made to provide Laboratory Instruction in Chemical and Pharmaceutical Work, and in every respect efforts will be made to keep pace with the rapid advancement of Pharmaceutical Science.

## REQUIREMENTS FOR ADMISSION.

Every applicant for admission to the regular course of graduation at this College will be required to pass a preliminary examination, or to present a diploma or other satisfactory written evidence that he has passed the first grammar grade, and is entitled to enter a High School of this State, or has attended some academy of a grade equal to that of our high Schools. Those who do not present such certificates will be examined in English reading and composition, writing, geography and arithmetic.

Candidates will therefore be at the College on FRIDAY, MARCH 30th, at 9 A. M., for the purpose of matriculating, when those who are possessed of satisfactory certificates will be allowed to matriculate without examination, and all others will be examined in the above mentioned branches.

## REQUIREMENTS FOR GRADUATION.

Every person upon whom the diploma of Graduate of Pharmacy shall be conferred must be of good moral character, shall have attained the age of 21 years, and attended two full courses in each of the departments of this College, or one course (the Senior) in this, after a course in some other recognized College of Pharmacy. He must have had, inclusive of the time of attendance at this College, four years' experience in a pharmacy where prescriptions are compounded. No special examination will be held for candidates for the degree, but only an examination at the end of the regular course. Students failing to attend less than two-thirds of the lectures in each chair will not be allowed to enter the final examinations.

He must present a *thesis* to the Dean on or before 1st September. The thesis must be an original dissertation upon some subject relating to Pharmacy or its collateral branches, or a chemical analysis conducted by himself. It must be written by the candidate himself, in the English language, and on the regular thesis paper furnished by the College, so as to admit of being bound uniformly with the others in volumes for preservation.



Candidates must be recommended jointly by the Faculty and Examining Board to the Regents of the University of California, by whom the Degree is conferred (the College of Pharmacy being affiliated with the University.)

---

### FEEs.

Matriculation (paid but once).....	\$2 50
Botany (for each term).....	12 50
Chemistry (for each term).....	12 50
Pharmacy (for each term).....	12 50
Materia Medica (for each term).....	12 50
Fee for Final Examination, payable but once, and not refunded in case of failure.....	10 00
Certificate of Proficiency.....	2 00
Latin (optional) for the term.....	5 00
Junior Quiz Class (optional) for the term.....	5 00
Senior Quiz Class (optional) for the term.....	6 00

---

### PHARMACISTS ENTERING MEDICAL COLLEGES.

Graduates in Pharmacy of this College are permitted to present themselves for examination for the Degree of Doctor of Medicine in the medical department of the University of California and in the Cooper Medical College, after attending either of these schools two years instead of three, as required of other students. The fees have also been reduced in like proportion to graduates in Pharmacy. This generous concession is a gratifying evidence of the value of pharmaceutical instruction, and should not be overlooked by young men who design to make the practice of medicine their ultimate object.

Graduates of such Medical Colleges as are recognized by the American Medical Association, will be permitted to present themselves for examination for the degree after one year's attendance at this College, provided they have complied with all the other conditions for graduations.

Other students, not intending to pursue pharmacy as their vocation, will be admitted to the lectures, or any one of the courses they may desire to attend, by paying the matriculation fee and that of the chair or chairs of instruction. They may be examined in the special subjects with the students of the Senior Class, and Certificates of Proficiency will be awarded to them on the same conditions as to the regular students. Special students will not, in any case, be eligible for the Degree of Graduate in Pharmacy.

A GOLD MEDAL, SCIENTIFIC APPARATUS AND A FREE SCHOLARSHIP will be bestowed in each session. For particulars, see Prospectus.

THE LIBRARY and READING ROOM is open daily, and is free to the use of students.

Assistants seeking situations, and Employers wanting clerks, should register their names in the College.

*For Prospectus, Terms, and further information, address*

EDWARD W. RUNYON, *Dean of the Faculty.*

529 and 531 MARKET STREET,

SAN FRANCISCO, CAL.

## HASTINGS COLLEGE OF THE LAW.

### DIRECTORS.

HON. NILES SEARLS, SAN FRANCISCO.

Chief Justice of the Supreme Court, *ex officio* President of the Board.

COL. JOSEPH P. HOGE, Vice President .....	San Francisco.
SAMUEL M. WILSON, Esq. ....	San Francisco.
OLIVER P. EVANS, Esq. ....	San Francisco.
THOMAS B. BISHOP, Esq. ....	San Francisco.
HON. JOHN R. SHARPSTEIN .....	San Francisco.
THOMAS I. BERGIN, Esq. ....	San Francisco.
ROBERT P. HASTINGS, Esq. ....	San Francisco.
RALPH C. HARRISON, Esq. ....	San Francisco.

### FACULTY.

EDWARD S. HOLDEN, L.L.D., President of the University, PRESIDENT.

ROBERT P. HASTINGS, LL.B., DEAN.

EDWARD J. RYAN, LL.B., REGISTRAR.

J. H. C. BONTE, D.D., Professor of Legal Ethics.

S. CLINTON, HASTINGS, L.L.D., Professor of Comparative Jurisprudence.

WM. CAREY JONES, A.M., Professor of Roman and Constitutional Law.

CHARLES W. SLACK, L.L.B., Acting Professor of Municipal Law.

### CALENDAR AND DIRECTORY.

The College year begins and ends with the Academic year at Berkeley. There is a recess of two weeks in December.

The Lectures are delivered in the Assembly Room of the Old Hall of Pioneers, 808 Montgomery street. San Francisco.

Hour of Lectures to Senior Class, 4:30 P. M ; to Middle Class, 3:30 P. M ; to Junior Class, 8:30 A. M.

The office of the Registrar is at 230 Montgomery street, San Francisco.

THE LIBRARY OF THE

FEB 26 1931

UNIVERSITY OF ILLINOIS.









# ANNOUNCEMENT

OF THE

## COLLEGE OF DENTISTRY

OF THE

## UNIVERSITY OF CALIFORNIA,

FOR ITS

THE LIBRARY OF THE

FEB 26 1931

EIGHTH SESSION,

UNIVERSITY OF ILLINOIS.

Commencing February 4, 1889, and Ending October 31, 1889.

---

*N. B.—Those who wish to receive the Announcement are requested to forward their Names and Addresses to the Dean.*

---

SACRAMENTO:

STATE OFFICE, : : : J. D. YOUNG, SUPT. STATE PRINTING.

1889.



# ANNOUNCEMENT

OF THE

## COLLEGE OF DENTISTRY

OF THE

UNIVERSITY OF CALIFORNIA,

THE LIBRARY OF THE

FOR ITS

FEB 26 1931

UNIVERSITY OF ILLINOIS.

EIGHTH SESSION,

Commencing February 4, 1889, and Ending October 31, 1889.

---

*N. B.—Those who wish to receive the Announcement are requested to forward their Names and Addresses to the Dean.*

---

SACRAMENTO:

STATE OFFICE, : : : J. D. YOUNG, SUPT. STATE PRINTING.

1889.





## CONTENTS.

---

	PAGE
DIRECTORY .....	5
BOARD OF REGENTS.....	6
FACULTY .....	7
ANNOUNCEMENT.....	9
COMMENCEMENT OF TERM.....	9
SCHEDULE OF STUDY.....	11
REQUIREMENTS FOR ADMISSION.....	11
DATE OF PRELIMINARY EXAMINATION.....	12
JUNIOR EXAMINATIONS.....	12
REQUIREMENTS FOR GRADUATION.....	12
FEES .....	13
TEXT-BOOKS.....	13
OUTLINE OF COURSE OF STUDY.....	14
EXAMINATION FOR ADMISSION.....	17
STUDENTS 1888.....	20
COMMENCEMENT EXERCISES .....	21
GRADUATES .....	22
ACADEMIC SENATE.....	24
LITERARY AND SCIENTIFIC DEPARTMENTS.....	28
MEDICAL DEPARTMENT.....	30
PHARMACEUTICAL DEPARTMENT .....	32



## OFFICE DIRECTORY.

---

### IN BERKELEY.

The office of the PRESIDENT is Room No. 2, *North Hall*.

The office of the RECORDER is Room No. 28, *North Hall*.

The office of the SECRETARY OF THE BOARD OF REGENTS is in *South Hall*.

The office of the LAND AGENT is in *South Hall*.

The office of the MANAGER OF THE UNIVERSITY PRINTING PRESS is No. 27, *North Hall*.

---

### IN SAN FRANCISCO.

The office of the REGISTRAR OF THE COLLEGE OF LAW is No. 230 Montgomery Street.

Lectures in the COLLEGE OF LAW are delivered in the Assembly Room of the Society of Pioneers, No. 808 Montgomery Street.

The office of the DEAN OF THE MEDICAL FACULTY is No. 603 Merchant Street.

The COLLEGE OF MEDICINE is situated on Stockton Street, between Chestnut and Francisco, in Toland Hall.

The Medical and Surgical Clinics of the COLLEGE OF MEDICINE are held at the City and County Hospital, Twenty-second Street and Potrero Avenue.

The Dispensary Clinics of the COLLEGE OF MEDICINE are held in Toland Hall.

The office of the DEAN OF THE DENTAL FACULTY is No. 500 Sutter Street.

Lectures in the COLLEGE OF DENTISTRY are delivered in Toland Hall, Stockton Street, between Chestnut and Francisco.

The office of the DEAN OF THE COLLEGE OF PHARMACY is No. 53 Stevenson Street.

The COLLEGE OF PHARMACY is situated at No. 113 Fulton Street, between Polk Street and Van Ness Avenue.

The office of the BOARD OF REGENTS is in Mechanics' Institute Library, 31 Post Street.

The office of the TREASURER OF THE BOARD OF REGENTS is 310 Sansome Street.

# UNIVERSITY OF CALIFORNIA.

## BOARD OF REGENTS.

### EX OFFICIO REGENTS.

HIS EXCELLENCY R. W. WATERMAN,	- - - -	SACRAMENTO.
<i>Governor, ex officio President of the Board.</i>		
HIS HONOR S. M. WHITE,	- - - -	LOS ANGELES.
<i>Lieutenant-Governor.</i>		
HON. W. H. JORDAN,	- - - -	OAKLAND.
<i>Speaker of the Assembly.</i>		
HON. IRA G. HOITT,	- - - -	SACRAMENTO.
<i>State Superintendent of Public Instruction.</i>		
HON. L. U. SHIPPEE,	- - - -	STOCKTON.
<i>President of the State Agricultural Society.</i>		
P. B. CORNWALL, Esq.,	- - - -	SAN FRANCISCO.
<i>President of the Mechanics' Institute.</i>		
HORACE DAVIS, A.B.,	- - - -	SAN FRANCISCO.
<i>President of the University.</i>		

### APPOINTED REGENTS.\*

NAME.	ADDRESS.	TERM EXPIRES.
REV. HORATIO STEBBINS, D.D.	1609 Larkin Street, San Francisco,	- 1894
HON. JOHN S. HAGER, LL.D.,	Palace Hotel, San Francisco,	- 1894
HON. J. WEST MARTIN,	Oakland, - - - -	- 1898
HON. JOHN F. SWIFT,	32 O'Farrell Street, San Francisco,	- 1888
A. S. HALLIDIE, Esq.,	329 Market Street, San Francisco,	- 1892
HON. WILLIAM T. WALLACE,	799 Van Ness Avenue, San Francisco,	1902
JOHN L. BEARD, A.M.,	Centreville, - - - -	- 1892
HON. A. L. RHODES,	430 California Street, San Francisco,	- 1888
HON. T. GUY PHELPS,	Belmont, - - - -	- 1896
I. W. HELLMAN, Esq.,	Los Angeles, - - - -	- 1902
GEORGE T. MARYE, JR., LL.B.,	234 Montgomery Street, San Francisco,	1898
ARTHUR RODGERS, A.B., Ph.B.,	309 Montgomery Street, San Francisco,	1890
GEORGE J. AINSWORTH, Ph.B.,	North Temescal, - - - -	- 1900
D. M. DELMAS, A.M.,	327 Pine Street, San Francisco,	- 1900
ALBERT MILLER, Esq.,	S. F. Savings Union, San Francisco,	- 1890
COLUMBUS BARTLETT, Esq.,	12 Montgomery Street, San Francisco,	1896

J. H. C. BONTÉ, D.D., Secretary, Berkeley.

Regular meetings of the Board of Regents are held six times a year, viz., on the second Tuesday of September, November, January, March, and May, and on the Tuesday preceding the last Wednesday in June.

\*In the order of original appointment.

# UNIVERSITY OF CALIFORNIA.

---

## COLLEGE OF DENTISTRY.

---

TOLAND HALL, STOCKTON STREET, BELOW CHESTNUT, SAN FRANCISCO, CALIFORNIA.

---

### FACULTY.

- HORACE DAVIS, A.B., *President of the University, and ex officio President of the Faculty.*  
JOSEPH LECONTE, M.D., LL.D., *Honorary Professor of Biology.*  
C. L. GODDARD, A.M., D.D.S., *Professor of Mechanical Dentistry, Dental Metallurgy and Orthodontia.*  
L. L. DUNBAR, D.D.S., *Dean, and Professor of Operative Dentistry and Dental Histology.*  
MAURICE J. SULLIVAN, D.D.S., *Professor of Dental Pathology and Therapeutics.*  
W. E. TAYLOR, M.D., *Professor of Principles and Practice of Surgery.*  
A. L. LENGFELD, M.D., *Professor of Materia Medica and Medical Chemistry.*  
WILLIAM B. LEWITT, M.D., *Professor of Anatomy.*  
A. A. D'ANCONA, A.B., M.D., *Professor of Physiology.*
- 

### LECTURERS.

- B. W. HAINES, M.D., D.D.S., *Lecturer on Operative Dentistry.*  
CHARLES BOXTON, D.D.S., *Lecturer on Mechanical Dentistry.*
- 

### DEMONSTRATORS.

- HARRY P. CARLTON, D.D.S., *Demonstrator of Operative Dentistry.*  
CHARLES BOXTON, D.D.S., *Demonstrator of Mechanical Dentistry.*  
M. F. GABBS, D.D.S., *Demonstrator of Continuous Gum.*  
J. T. ROWAND, D.D.S., *Demonstrator of Crown and Bridge Work.*  
JOHN M. WILLIAMSON, M.D., *Demonstrator of Anatomy.*
- 

### ASSISTANTS.

- WINSLOW ANDERSON, M.D., *Assistant to the Chair of Materia Medica and Medical Chemistry.*  
EUGENE PAYNE, D.D.S., *Assistant Demonstrator of Operative Dentistry.*  
S. A. HACKETT, D.D.S., *Assistant Demonstrator of Mechanical Dentistry.*  
JOHN H. BARBAT, Ph.D., M.D., *Assistant Demonstrator of Anatomy.*



CLINICAL INSTRUCTORS.

H. C. DAVIS, L.D.S.	San Francisco.
W. B. KINGSBURY	Santa Clara, California.
H. E. KNOX, D.D.S.	San Francisco.
F. J. LANE, D.D.S.,	Oakland.
A. F. McLAIN, M.D., D.D.S.	Santa Rosa, California.
THOMAS MORFFEY, D.D.S.	San Francisco.
W. E. PRICE, D.D.S.	San Francisco.
F. J. SAXE, D.D.S.	Oakland.
MAX. SICHEL	San Francisco.
L. VAN ORDEN, M.D.	San Francisco.
W. WOOD	Sacramento.

L. L. DUNBAR, Dean,  
No. 500 Sutter Street, San Francisco.

# ANNOUNCEMENT.

---

On the fourth of February, 1889, the College of Dentistry of the University of California will commence its eighth annual session. The work of the past will speak for itself, and we feel that a great future is before us. The Faculty promise, individually and collectively, to do their utmost to further the cause of professional education and advancement.

Although still among the younger of the Dental Colleges of the United States, which now number twenty-five or more, it has always maintained a high standard.

It was the second College in the United States to adopt a nine-months' course of lectures.

It was the third College to require three years' study before graduation.

It was the third College to require a preliminary examination.

The plan of giving a longer term of lectures and requiring a longer time of study was adopted because the Faculty was fully convinced that two years' study, with two courses of five or six months each, could not really fit students for actual practice. Now more time is given for practice in the Infirmary and for the study of text-books, which is a matter of great importance.

The College was started through the courtesy of the College of Medicine of the University of California, to which we have been indebted for lecture and clinic rooms, and for many opportunities afforded our students to attend medical lectures.

As no financial aid or support has been given by the State, and the amount of subscription was small, the Faculty has had to depend upon the fees of students for providing necessary equipment and maintaining the College after it was established.

Joseph LeConte, M.D., LL.D., Honorary Professor of Biology, will deliver a special course upon that subject before the class. His eminent ability as a scholar and lecturer cannot help attracting the attention of scientific men in our profession to the dignity of the school, and the character of its curriculum, as well as making a marked impression on the discipline and culture of the classes.

While the Undergraduate Departments of the University are clustered at Berkeley, the Professional Colleges are, for convenience of clinical study, conducted wholly in San Francisco.

The College is beautifully situated, well ventilated and lighted, and admirably constructed and arranged for the work in hand. There is always an abundance of clinical material, both operative and mechanical, as well as pathological, drawn from a heterogeneous population of between 250,000 and 300,000. There are seven Professors in the College, besides a corps of able and earnest assistants and demonstrators, both operative and mechanical. The Didactic Professors deliver two lectures per week each, as will be seen on the schedule of instruction.

Wednesday afternoon of each week is set apart for Clinical Instructors, and two or more are required to operate each week during the term.

The main lecture hall of the College is capable of seating 500 persons. The clinical amphitheater is about equally capacious.

The museum contains an extensive collection of specimens and preparations.

The dissecting room is fitted up with all the modern improvements.

The laboratory is replete with all chemicals and apparatus necessary for practical teaching.

A suite of apartments in the building is set apart for the dispensary clinics.

There are two large and convenient dental operating rooms, with windows of extra width and height, thus giving light that is unsurpassed. These are furnished with Morrison, Archer, and Cycloyd chairs, and handsome operating stands, which will be assigned to students in the order of their matriculation.

The dental laboratory is commodious, and furnished with benches, lathes, furnaces for melting, forge, rolling mill, continuous gum furnaces, and all other requisites for thorough work. Each student is required to furnish his own instruments and tools, and will be provided with a separate drawer in which they can be securely locked; also with a separate bench, provided with gas for heating purposes.

Those who have instruments and laboratory tools and appliances, should bring them; those who have not, are advised to defer purchasing till they arrive. Lists will be furnished when desired. During the hours devoted to operative or mechanical dentistry, Professors or competent Demonstrators will be present to assign patients to students, and superintend and assist them in their operations.

Both the Medical and Dental Departments of the University of California, *unlike corresponding Colleges in the Eastern States*, have their regular term in the spring and summer.

# SESSION OF 1889.

*Term commences February 4, 1889, and closes October 31, 1889.*

## SCHEDULE OF STUDY—ORDER OF LECTURES AND CLINICS.

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.
9 A. M. to 10 A. M.	CLINIC, 9 to 11, Operative Dentistry, Dr. PAYNE.	CLINIC, 9 to 12, Operative Dentistry, Dr. CARLTON.	Dental Pathology and Therapeutics, Prof. SULLIVAN.	CLINIC, 9 to 12, Operative Dentistry, Dr. PAYNE.	CLINIC, 9 to 11, Operative Dentistry, Dr. CARLTON.
10 A. M. to 11 A. M.			LECTURE, Chemistry, Prof. LENGFELD.		
11 A. M. to 12 M.			LECTURE, Surgery, Prof. TAYLOR.		
12 M. to 1 P. M.	CLINIC, 12 to 4, Mechanical Dentistry, Dr. HACKETT.	CLINIC, 12 to 3, Mechanical Dentistry, Dr. BOXTON.	CLINICAL INSTRUCTORS, from 2 to 5.	CLINIC, 12 to 3, Mechanical Dentistry, Dr. BOXTON.	CLINIC, 12 to 4, Mechanical Dentistry, Dr. HACKETT.
1 P. M. to 2 P. M.					
2 P. M. to 3 P. M.					
3 P. M. to 4 P. M.	LECTURE, Anatomy, Prof. LEWITT.	LECTURE, Physiology, Prof. D'ANCONA.	LECTURE, Dental Metal- lurgy and Orthodontia, Prof. GODDARD.	LECTURE, Physiology, Prof. D'ANCONA.	LECTURE, Anatomy, Prof. LEWITT.
4 P. M. to 5 P. M.		LECTURE, Mechanical Dentistry, Dr. BOXTON.	DISSECTING.	LECTURE, Mechanical Dentistry, Dr. BOXTON.	
5 P. M. to 6 P. M.		LECTURE, Dental Pathology and Therapeutics, Prof. SULLIVAN.		DISSECTING.	
	LECTURE, Operative Den- tistry, Prof. DUNBAR,				LECTURE, Operative Dentistry, Prof. DUNBAR.
SATURDAY, from 9 A. M. to 12 M., HOSPITAL CLINICS, MEDICAL AND SURGICAL.					

## REQUIREMENTS FOR ADMISSION.

Every candidate for admission must be eighteen years of age, must present to the Faculty satisfactory evidence of a good moral character, and must be examined as to his previous education and fitness to appreciate the technical study of Dentistry. The examinations will be chiefly in writing; and will embrace the following subjects, viz.:

1. Arithmetic.
2. Geography.
3. English Grammar and Composition.
4. United States History.
5. Natural Philosophy. (Refer to Avery's Natural Philosophy, Peck's Ganot's Introductory Course in Natural Philosophy, or an equivalent.)
6. Elementary Chemistry. (Refer to Mead's Chemical Primer, Elliot and Storer's Chemistry, Avery's Chemistry, or an equivalent.)

No matriculation examination will be required of those who have passed the entrance examination of the University of California or of any other recognized College or University, nor of graduates of any recognized academy or high school, nor of those holding teachers' certificates.

In order to secure a release from this examination, the candidate must present his diploma or certificate of examination or graduation.

### PRELIMINARY EXAMINATION.

The preliminary examination for the Session of 1889 will be held in San Francisco, at the College building (Toland Hall), Stockton Street, near Francisco, Monday, January 28th, at 9 o'clock A. M. Students desiring to present themselves at this examination will please call previously at the office of the Dean, 500 Sutter Street.

For further information, see the latter pages of this Announcement.

### THREE YEARS' STUDY.

The course of study and instruction is divided into three years—Freshman, Junior, and Senior.

Students who present certificates of one year's study with a preceptor will be admitted to the Junior Class. These certificates must be made out on blanks, which may be obtained from the Dean.

### JUNIOR EXAMINATIONS.

At the end of the Junior year students will be examined in Anatomy, Physiology, Chemistry (or *Materia Medica*), Histology, and Mechanical Dentistry, and those who are qualified will receive certificates of admission to the Senior Class.

### REQUIREMENTS FOR GRADUATION.

The candidate for the degree of Doctor of Dental Surgery must have attained the age of twenty-one years, and be of good moral character.

He shall have passed a satisfactory examination, both oral and written.

He shall have studied Dentistry *three* years, including the time spent in attending lectures.

He shall have attended two full courses in the Dental Department of the University of California, or one year in some other reputable Dental College, and the second or last in this College.

He shall subscribe to Article II, Section 3, of the Code of Ethics of the American Dental Association.

He *may* write an original thesis upon some subject pertaining to Dentistry or Medicine.

The written examination is required in lieu of a thesis.

The candidate is required to dissect at least two upper quarters. He must treat thoroughly some patient, requiring all the usual dental operations, and bring such patient before the Professors of Operative Dentistry and Dental Pathology and Therapeutics. He must also complete at least one artificial case. He must insert at least one crown or piece of bridge work, treat one case of irregularity, and, after the cases are completed, bring his patient before the Professor of Mechanical Dentistry at least thirty days before the close of the term. He must also prepare a specimen case, to be deposited in the College collection, and present the same to the Professor of Mechanical Dentistry before the first of October. The operating must be performed, and the work on the artificial cases done, at the College building, and exclusively by the applicant for the degree.



Graduates in medicine may apply for the Degree of Doctor of Dental Surgery after having had two full years of practical instruction or experience in dentistry, one year of which, including one course of lectures, must be spent in the Dental Department of the University of California.

After these requirements have been complied with, upon the recommendation of the Faculty and approval of the Board of Regents, the candidate shall receive the Degree of Doctor of Dental Surgery.

### FEES.

The Matriculation Fee will be (paid once).....	\$5 00
Tuition, first year .....	120 00
Tuition, second year .....	120 00
Tuition, third year .....	Free.
Fee of Demonstrator of Anatomy, each year.....	10 00
Diploma Fee .....	30 00

### TEXT-BOOKS.\*

The following books will be needed during the course of study. Students are advised to procure at least the first six at the beginning of the Junior year, and to add the others before the Senior year:

1. Dental Dictionary, Harris, or Medical Dictionary, Dunglison or Thomas.
2. Anatomy, Gray, Quain, or Holden.
3. Physiology, Dalton or Flint.
4. Mechanical Dentistry, Richardson or Harris.
5. Operative Dentistry, Taft or Harris.
6. Dental Chemistry, Mitchel.
7. Dental Anatomy, Tomes.
8. Oral Deformities, Kingsley.
9. Dental Metallurgy, Essig.
10. Dental Materia Medica and Therapeutics, Gorgas or Stockens.
11. Surgery, Ashurst or Bryant.
12. Therapeutics, Wood, Biddle, or Bartholow.
13. Dental Pathology, Weld.
14. Chemistry, Lloyd or Barclay.
15. Materia Medica, United States Dispensatory or National Dispensatory.

### ADDITIONAL BOOKS FOR REFERENCE.

- Oral Surgery, Garretson.  
 American System of Dentistry, Litch.  
 Histology, Stricker, Frey, Beal, or Wythe.  
 Microscopical Morphology, Heitzman.  
 Pathology, Wagner.  
 Orthodontia, Guilford.  
 Nitrous Oxide, Guilford.

---

\*When "or" is used between authors, students may choose either.

## OUTLINE OF THE COURSE OF STUDY.

---

### BIOLOGY.

Professor Joseph LeConte will deliver a series of lectures on the Correlation of Vital with Physical and Chemical Forces; also, upon the Homologies of the Vertebrate Skeletons.

### OPERATIVE DENTISTRY AND DENTAL HISTOLOGY.

The course of instruction in this department will be as comprehensive and thorough as improved appliances and methods can make it, and will embrace both the didactic and clinical courses.

Intra and extra uterine development of the teeth will be fully considered from the *primary* germ to the final loss of the permanent teeth.

Recent microscopical investigations in Dental Histology will be fully illustrated with new slides, micro-photographs, and every efficient aid to an intimate knowledge of minute dental structure.

It will be the aim of the department to make the entire course of lectures from the chair as practical as possible, by a comparison of old and new methods, with a complete analysis of recent innovations in operative procedure.

### MECHANICAL DENTISTRY.

**DENTAL METALLURGY AND ORTHODONTIA.**—The instruction in Mechanical Dentistry will embrace everything necessary to enable the dentist successfully to supply substitutes for lost dental organs.

Special reference will be made to the principles involved in the restoration of the natural functions of the teeth, namely: mastication, enunciation, and expression of the features, keeping in view always the health and the future usefulness of the living parts.

The instruction is divided into two courses, as follows:

*Junior Course.* Lectures on the treatment of the mouth and teeth preparatory to inserting artificial dentures; impressions in wax and plaster; casts; the manufacture of artificial teeth, their selection and arrangement for special cases; application of atmospheric pressure to artificial dentures; properties and uses, in the construction of dentures, of wax, plaster, shellac, sandarach, rubber, and celluloid.

*Senior Course.* Lectures on the construction of instruments, of dies and counter-dies, of models of the mouth, and of molds; construction of dentures on bases of gold, silver, and aluminum; continuous gum work.

The construction of crown and bridge work will receive special attention. The professor of this chair will be assisted by Chas. Boxton, D.D.S., who was for several years demonstrator of Mechanical Dentistry. The instruction in Dental Metallurgy as applied to mechanical dentistry; properties and uses of gold, silver, platinum, aluminum, zinc, lead, tin, and their alloys, and of iron and steel, will be made more complete than heretofore. Special attention will be paid to refining and alloying gold, and to estimating its fineness. Practical laboratory instruction will be given in working of the metals. Orthodontia: The correction of irregularities of the natural teeth, will be treated at length,

and illustrated by drawings, appliances, and numerous casts of practical cases. Each senior student will be required to treat one or more cases of irregularity during the session.

### PHYSIOLOGY.

The lectures in this department, by Professor D'Ancona, embrace a consideration of both General and Special Physiology, including all that has been developed up to the present time, and are illustrated by the largest and most complete series of colored drawings in the United States, prepared exclusively for these lectures; besides which, the vast collection of preparations and drawings of the Scientific Department at Berkeley are at the command of the Professor. Vivisections are practiced when necessary to demonstrate principles and the microscope is freely used for illustrating important facts and principles.

### SURGERY.

Professor Taylor delivers two lectures each week on the Art and Science of Surgery. The more recent views on the management of surgical conditions, and the appliances devised for their relief, are particularly dwelt upon, and illustrated with drawings and models when necessary. This course will include a series of lectures upon Operative Surgery, with demonstrations on the cadaver. The student will be drilled in the manipulation of instruments used in the various operations.

In addition to his usual course of lectures on surgery, he will pay particular attention to surgical diseases, and injuries of the head, face, jaws, and mouth.

### CHEMISTRY AND MATERIA MEDICA.

Professor Lengfeld will spare no effort to make the course in Chemistry and Materia Medica thoroughly practical and instructive. All important principles are illustrated by means of suitable philosophical, chemical and other apparatus, and facts and theories are presented in a clear and comprehensive manner.

Special attention will be given to Prescription Writing, Urinary and Salivary Analysis, and Toxicology, and to the nature, origin, physical, and chemical properties of the various remedies officinal in the United States Pharmacopœia.

Dr. Winslow Anderson, Assistant to the Chair of Materia Medica and Medical Chemistry, will conduct the Laboratory investigations, including qualitative analysis and recitations, at least two hours each week during the term.

The first course students will have practical instruction in the Chemical Laboratory three hours each week.

### ANATOMY.

Professor W. B. Lewitt's lectures on anatomy are illustrated fully by the cadaver, and by both wet and dry preparations, models, manikins, and drawings, and include a course on general, special, and topographical anatomy, thus preparing the student for active surgical practice, as well as giving him a thorough knowledge of the relation of organs. Before each lecture a short examination is held on the subject of the preceding lecture.

### DENTAL PATHOLOGY AND THERAPEUTICS.

The lectures delivered by the incumbent of this chair will embrace a full and comprehensive course on the following topics:

1. GENERAL PATHOLOGY.—In which will be discussed those general aspects of disease with which it is necessary to be acquainted in order to be able to understand the nature of any departure from health; causes of disease, symptoms,

diagnosis, prognosis, temperaments, pathology of anæsthetics, irritation, determination, congestion, inflammation and its terminations; effusion, suppuration, ulceration, gangrene, sloughing, morbid growths, etc.

2. **SPECIAL PATHOLOGY.**—In which a critical examination will be made into the special causes of dental decay; dental hygiene and prophylaxis; disease of the enamel—of the dentine; diseases of the dentinal pulp—together with the causes of alveolar abscess—its stages and results; exostosis of the roots and alveoli; necrosis and exfoliation; disease of the antrum; tumors, benign and malignant; diseases of the mucous membrane.

Neuralgia and other nervous affections will receive such attention as their importance may demand, and, besides, there will be presented such other special diseases as may in any degree be of interest to the Dental Practitioner, such as scurvy, scrofula, rachitis, and other diseases of the bones.

3. **GENERAL PRINCIPLES OF THERAPEUTICS.**—Under which head the general application of medicines will be noticed—their actions, constitutional and topical.

4. **SPECIAL THERAPEUTICS.**—In connection with Dental Materia Medica, as incidentally related thereto.

#### **THE DENTAL LABORATORY.**

The Dental Laboratory will be in charge of the Demonstrators of Mechanical Dentistry, who will assign patients to students, and give practical instruction in preparing the mouth for the insertion of artificial teeth, taking impressions, selecting and arranging teeth, and the construction of artificial dentures on bases of vulcanite, celluloid, silver, gold, etc.; also, in alloying, refining, and preparing the metals for use. Special attention will be given to continuous gum work. On account of the length of the term, the opportunities for practice in correcting irregularities of the teeth will be unsurpassed, and will receive their share of attention.

#### **THE DENTAL INFIRMARY.**

The Operating Department will be under the immediate supervision of the Demonstrators of Operative Dentistry.

The rooms will be open during the forenoon of Monday, Tuesday, Wednesday, Thursday, and Friday, when all practical matters pertaining to Operative Dentistry will be fully dealt with by the Demonstrators, one of whom will always be present. As there is always an excess of clinical material on hand, and there are six hundred and forty-eight hours per term (including three hours each Wednesday afternoon) devoted to practical consideration of diseases of the teeth, and the adjacent parts, it is not difficult to estimate the advantages the students have in this department.

#### **PRACTICAL ANATOMY.**

The dissecting-room of the University is spacious, well ventilated, well lighted from above, and provided with every convenience. It is open throughout the year under the superintendence of the Professor of Anatomy and the Demonstrator of Anatomy. A full supply of material is always procurable at small cost, and is thoroughly preserved from decomposition. When dissections are conducted in a diligent manner, the student is furnished by the Demonstrator with certificates stating the amount and part dissected. The Dissecting Ticket (\$10) is good for the whole year, from January first to December thirty-first.

#### **CLINICAL INSTRUCTION.**

During the course, Wednesday afternoons will be devoted to clinical lectures and operations by the Professors and Clinical Instructors.



### HOSPITALS.

All students in Dentistry will have all the facilities and opportunities enjoyed by the medical students in hospital practice and observation. They will have the freedom, as above represented, of the City and County Hospital, City Receiving Hospital, and San Francisco Female Hospital.

Medical and Surgical clinical lectures are given by the Professors of the Medical Department of the City and County Hospital, Tuesdays, Thursdays, and Saturdays, from 9 to 11 A. M.

For further particulars on this subject, see Medical Department Announcement.

### LIBRARY AND MUSEUM.

A nucleus has been formed from which it is hoped a large library and museum will grow. All members and friends of the profession are invited to contribute books, pamphlets and journals, charts, anatomical, physiological and pathological specimens, casts of deformities and irregularities of the teeth and associate parts, or anything that will be useful or instructive.

These contributions will be placed in the library and museum, and marked with the name of the donor, if desired.

L. L. DUNBAR, Dean of the Faculty,  
500 Sutter Street, San Francisco.

OFFICE HOURS: 4 to 6 P. M. only.

N. B.—BOARDING. The expense of living in the city of San Francisco is very reasonable. Good board, with room rent, may now be procured at the low rate of \$5 per week, at a convenient distance from the College building.

There is a free Public Library in San Francisco, of which students may have full benefit.

---

### EXAMINATION FOR ADMISSION.

---

Inquiry having so frequently been made concerning the examination for admission to this College, it is deemed well to append as samples the following questions, given here at the beginning of the session of 1888. The answers to these are required in writing; in some instances an oral examination is also made. It is quite probable that each year a little advance will be made in the character of these examinations. See requirements for admission on page 11.

Write your name in full.

Give date of birth: Day, month, year.

Where do you now reside? Town, county, State.

Where were you born? Town, county, State.

What educational advantages have you had? Name the schools you have attended and the time spent in each.

What branches have you studied, and to what extent have you pursued them?

In what occupation have you been engaged other than that of student, and how long were you thus employed?

When did you commence studying dentistry? Month, year.

How many months of actual medical and dental study have you had to date?



Have you attended a full course at any medical or dental school? If so, where and when?

With what preceptor or preceptors have you studied? Give name and present residence.

Write an English composition, of at least two hundred words, upon a subject of the examiner's selection.

#### ARITHMETIC.

1. What will it cost to fill to the depth of 3 feet, a lot 24x132 feet, at 50c. per cubic yard?

2. If by selling property for \$6,000, I lose 25 %, what should I have sold it for to have gained 20 %?

3. What is the interest on \$500 for 2 years, 2 months and 2 days at 10 % per annum?

4. (a) What is the difference between Interest and Discount?

(b) What is Commission? What is Present Worth?

What is Exchange? What is Bankruptcy?

5. If  $\frac{2}{3}$  of 3-5 of a number be subtracted from  $\frac{3}{4}$  of 6 times the number, the remainder is 4, what is the number?

#### GEOGRAPHY.

1. Name the 10 largest Cities in the U. S.; Give Population of the largest.

2. What two motions has the Earth? Which causes the change of seasons?

3. What nations of Europe are called the "Five great Powers?"

4. Name 10 Rivers of the U. S. that flow into the Atlantic.

5. (a) Bound California.

(b) What is the length of its Coast line?

(c) Name the Counties bordering on San Francisco Bay.

#### GRAMMAR.

1. Write the principal parts of the following verbs:—Be, hid, lie (to recline), lay, sit, will, blow, give, shoe.

2. Write the plurals of, fly, wharf, roof, hero, folio, scissors, radius, structure, toy, pailful, Mr., 8.

3. Define a simple, a complex, and a compound sentence. Give examples of each.

4. Write a synopsis of the verb swim, in the third person singular, Indicative mood.

5. Correct the following sentences:

Between you and I it was me who done it.

Who broke this pitcher? It was me—not her.

Who did you see? It certainly was not me.

#### U. S. HISTORY.

1. What causes led to the Declaration of Independence?

2. (a) What is the last territory purchased by the U. S., and from whom purchased?

(b) Name the 13 original States.

3. When did the great Rebellion break out? What was the first act of war?

4. What connection have the following names with American History: Lafayette, De Soto, Sir Walter Raleigh, Gen. Putnam, Benedict Arnold.

5. What officers constitute the President's Cabinet, and by whom are they appointed?

**NATURAL PHILOSOPHY.**

1. What is Heat, Gravity, Electricity?
2. What is the difference between adhesion and cohesion?
3. What is the Wedge, and on what does its effective power depend?
4. How high may water be raised by a common pump, and why?
5. What is the difference between a Fahrenheit and a Centigrade Thermometer?

**CHEMISTRY.**

1. What is the difference between Physics and Chemistry?
2. Name the principal elements. Write their symbols.
3. What is a chemical reaction? Give an example.
4. What is the chemical composition of water?
5. Give some of the properties of Oxygen.

## STUDENTS OF THE SESSION OF 1888.

### SENIOR CLASS.

Student.	Residence.	Preceptor.
Boys, Henry Sanford .....	San Francisco, Cal.....	C. H. Bosanco, D.D.S.
Chapman, Ira Hart.....	San Francisco, Cal.....	H. Sylvester, Jr., D.D.S.
Fisher, Frank Holmes.....	Oakland, Cal.....	L. L. Dunbar, D.D.S.
Gambitz, Milton Ross.....	San Francisco, Cal.....	G. B. Lemon, M.D.
Hultberg, Frank Lewis .....	San Francisco, Cal.....	J. A. W. Lundborg.
Hackett, Samuel Alston .....	Oakland, Cal.....	I. S. Halsey.
McCargor, Philander .....	Ottawa, Canada.....	A. McFadyen, D.D.S.
Pfister, Joseph.....	San Francisco, Cal.....	J. Schneider, D.D.S.
* Romafia, Rafael .....	San Francisco, Cal.....	E. O. Cochrane, D.D.S.
Shankey, William George.....	San Francisco, Cal.....	J. J. Birge.
Short, Edward Nelson .....	San Francisco, Cal.....	L. L. Dunbar, D.D.S.
Weston, Charles Sawtelle .....	Oakland, Cal.....	A. Cornwall.

### JUNIOR CLASS.

Bray, George Frederick I.....	San Francisco, Cal.....	Louis Bush.
Gunzburger, Benjamin Mitchell .....	San Francisco, Cal.....	Henry Craigie.
Hedderly, Thomas Lupton .....	Minneapolis, Minn.....	J. A. Bowman.
Katayama, Atsuhiko .....	Yokohama, Japan.....	K. Katayama.
Leshner, William Francis.....	San Francisco, Cal.....	C. L. Goddard, D.D.S.
Meyer, William Alexander.....	San Francisco, Cal.....	C. L. Goddard, D.D.S.
Mobley, Warren Guice.....	North Bloomfield, Cal.....	Col. of Dentistry, U.C.
Nash, Dorr .....	Nicolaus, Cal.....	J. Schneider, D.D.S.
Powell, Andrew J. ....	Haywards, Cal.....	F. J. Saxe, D.D.S.
Pratt, Edward William .....	San Francisco, Cal.....	Chas. Boxton, D.D.S.
Sutliff, Frederick Courtland .....	Sacramento, Cal.....	W. Wood.
Wallace, Arthur Henry.....	Stockton, Cal.....	W. G. Wallace, D.D.S.

### FRESHMAN CLASS.

Garrison, John Albert .....	Forest Hill, Cal.....	Col. of Dentistry, U.C.
Hatch, Harry Lewis .....	San Francisco, Cal.....	J. H. Hatch, D.D.S.
Litton, Charles Ashby .....	San Francisco, Cal.....	Col. of Dentistry, U.C.
Lovegrove, Walter Romain .....	San Francisco, Cal.....	H. F. Baynes, D.D.S.
Sylvester, Albert John.....	San Francisco, Cal.....	Sylvester and Sublett.

Seniors.....	12
Juniors .....	12
Freshman.....	5
Total.....	29

\* Deceased May 25, 1888.

## COMMENCEMENT, 1888.

---

The seventh commencement exercises of the College of Dentistry of the University of California were held at Metropolitan Hall, San Francisco, California, Tuesday, December 4th, at eight o'clock P. M.

### ORDER OF EXERCISES.

OVERTURE—"PIQUE DAME"— <i>Suppe</i> .....	ORCHESTRA.
PRAYER .....	REV. J. Q. ADAMS.
"THE ELKS' FROLICS"— <i>Boettger</i> .....	ORCHESTRA.
ADDRESS ON BEHALF OF THE FACULTY, PROFESSOR ARNOLD A. D'ANCONA, A.B., M.D.	
NOCTURNO—SOLO FOR FRENCH HORN— <i>Stratton</i> .....	E. SCHLOTTE.
CONFERRING DEGREES OF DOCTOR OF DENTAL SURGERY, HORACE DAVIS, A.B., <i>President of the University.</i>	
GRAND FANTASIE—"LOTTIE LEE" (WITH XYLOPHONE SOLO)— <i>Ringleben</i> , ORCHESTRA.	
BENEDICTION .....	REV. J. Q. ADAMS.

## GRADUATES.

### 1882.

Thomas Watson Hall .....	Oakland, California.
Charles Wesley Hibbard .....	San Francisco, California.
Thomas Morffew .....	San Francisco, California.
Henry John Plomteaux .....	Oakland, California.
Charles Wesley Richards .....	San Francisco, California.
William Henry Stanley .....	San Francisco, California.
Gustave William Sichel, M.D. ....	San Francisco, California.
August Van Crombrughe .....	San Francisco, California.

### 1883.

John Nelson Blood .....	Greenville, California.
Charles Boxton .....	San Francisco, California.
Maria Angelina Burch* .....	Pescadero, California.
Edward Everton Cochrane .....	San Francisco, California.
Russell Hopkins Cool .....	Oakland, California.
Milton Francis Gabbs .....	Sutter Creek, California.
William Edmund Price .....	San Francisco, California.

### 1884.

George Washington Cool .....	Oakland, California.
John Michael Dunn .....	Oakland, California.
Archibald Duncan Gleaves .....	Anderson, California.
Robert Nicol .....	Archiestown, Scotland.
Gustave Carl Rietzke .....	Kuhn, Germany.
William Henry Simmons .....	Oakland, California.
Elmer Joseph Weldon .....	Vacaville, California.

### 1885.

Henry Sylvester Bettis .....	San Francisco, California.
George Botsford .....	Campbellton, Canada.
Daniel Barratt Cate .....	Quincy, California.
Nathaniel Thomas Coulson .....	Cornwall, England.
George Ihmer Drucker .....	San Francisco, California.
William Ellis Fitzpatrick .....	Empire City, Nevada.
Walter Robert Henderson .....	Stockton, California.
John Adams Douglas Hutton .....	San José, California.
Franklin Pancoast .....	San Francisco, California.
Charles Theodore Rodolph .....	Oakland, California.
Frederick Judson Saxe, A.M. ....	Santa Clara, California.
Joseph Schneider .....	Vallejo, California.
Henry Sylvester, Jr. ....	San Francisco, California.

\*Deceased.



1886.

Harry Putnam Carlton .....	Oakland, California.
Hector Ludovic Couret .....	Sonora, Mexico.
Martin Joseph Dunn .....	Berkeley, California.
Nicholas Anton Givovich .....	Ragusa, Austria.
John Gow Humphrey .....	San Francisco, California.
Thomas Harvey Morris .....	Oakland, California.
William Cormack Reith .....	Sacramento, California.
Joseph Emil Sand .....	San Francisco, California.
Benjamin Franklin Simmons .....	Oakland, California.
William Oltman Stuttmeister .....	Oakland, California.
William Grover Sylvester .....	San Francisco, California.

1887.

Edward Livingston Davis .....	San José, California.
Joseph Dupuy Hodgen .....	Woodland, California.
Harold McKean Jones .....	Cloverdale, California.
Howard Maldonado .....	San Francisco, California.
Robert Eugene Payne .....	San Francisco, California.
Charles Edgar Post .....	San Francisco, California.
Arthur Theodore Regensburger .....	San Francisco, California.
George Frederick Rodden .....	San Rafael, California.
George Walter Rodolph .....	Oakland, California.
Jennie Martha Simpson .....	Sacramento, California.
Granville Eugene Shuey .....	Danville, California.
Otto Frank Westphal .....	San Francisco, California.

1888.

Ira Hart Chapman .....	San Francisco, California.
Samuel Alston Hackett .....	Oakland, California.
Frank Lewis Hultberg .....	San Francisco, California.
Philander McCargar .....	Virginia City, Nevada.
Joseph Pfister .....	Pinole, California.
William George Shankey .....	San Francisco, California.
Edward Nelson Short .....	San Francisco, California.
Charles Sawtelle Weston .....	Oakland, California.

# UNIVERSITY OF CALIFORNIA.

## ACADEMIC SENATE.

NOTE.—Divided into groups of Professors, Assistant Professors, Instructors, Lecturers, and Assistants, and arranged alphabetically in each group.

- HORACE DAVIS, A.B. ....  
*President of the University.*
- WASHINGTON AYER, M.D. ....410 Kearny Street, San Francisco.  
*Professor of Hygiene.*
- HERMANN HANS BEHR, M.D. ....509 Kearny Street, San Francisco.  
*Professor of Botany in the College of Pharmacy.*
- J. H. C. BONTE, D.D. ....University Grounds.  
*Professor of Legal Ethics, and Secretary of the Academic Senate.*
- GEORGE WOODBURY BUNNELL, A.M. ....1955 Telegraph Ave., Oakland.  
*Professor of the Greek Language and Literature.*
- SAMUEL BENEDICT CHRISTY, PH.B. ....Piedmont Avenue, near Bancroft  
Way, Berkeley.  
*Professor of Mining and Metallurgy.*
- R. BEVERLY COLE, A.M., M.D., M.R.C.S., ENG. ....723 Sutter Street, San  
Francisco.  
*Professor of Obstetrics and Gynecology.*
- ALBERT STANBURROUGH COOK, PH.D. ....Corner Dwight Way and Au-  
dubon Street, Berkeley.  
*Professor of the English Language and Literature.*
- ARNOLD ABRAHAM D'ANCONA, A.B., M.D. ....1408 Howard Street, San  
Francisco.  
*Professor of Physiology.*
- GEORGE DAVIDSON, PH.D. ....1117 Hyde Street, San Francisco.  
*Honorary Professor of Geodesy and Astronomy.*
- LUIS LANE DUNBAR, D.D.S. ....500 Sutter Street, San Francisco.  
*Professor of Operative Dentistry and Dental Histology, and Dean of the Dental  
Faculty.*
- STEPHEN J. FIELD, LL.D. ....Washington, D. C.  
*Honorary Professor of Law.*
- MELANCTHON WILLIAMS FISH, M.D. ....461 East Fourteenth Street, East  
Oakland.  
*Emeritus Professor of Physiology and Microscopy.*



- GEORGE HERMAN POWERS, A.M., M.D...215 Geary Street, San Francisco.  
*Professor of Ophthalmology and Otology.*
- ALBIN PUTZKER...Corner Humboldt Avenue and Parker Street, Berkeley.  
*Professor of the German Language and Literature.*
- WILLARD BRADLEY RJSING, M.E., PH.D.....Corner Allston Way and  
Chapel Street, Berkeley.  
*Professor of Chemistry.*
- EDWARD WHELOCK RUNYON, PH.G..53 Stevenson Street, San Francisco.  
*Professor of the Theory and Practice of Pharmacy, and Dean of the Phar-  
maceutical Faculty.*
- WILLIAM M. SEARBY.....859 Market Street, San Francisco.  
*Professor of Materia Medica in the College of Pharmacy.*
- GEORGE AUGUSTUS SHURTLEFF, M.D.....Stockton.  
*Emeritus Professor of Mental Diseases and Medical Jurisprudence.*
- CHARLES WILLIAM SLACK, PH.B., LL.B.....320 California Street,  
San Francisco.  
*Acting Professor of Municipal Law.*
- FRANK SOULÉ (United States Military Academy)..960 Oak Street, Oakland.  
*Professor of Civil Engineering and Astronomy.*
- IRVING STRINGHAM, PH.D.....Corner Piedmont Avenue and Bancroft  
Way, Berkeley.  
*Professor of Mathematics, Dean of the College of Letters and the Colleges of  
Science.*
- MAURICE JAMES SULLIVAN, D.D.S.....30 Post Street, San Francisco.  
*Professor of Dental Pathology and Therapeutics.*
- BENJAMIN RALPH SWAN, M.D.....310 Stockton Street, San Francisco.  
*Professor of Diseases of Children.*
- WILLIAM EDWIN TAYLOR, M.D.....215 Geary Street, San Francisco.  
*Professor of the Principles and Practice of Surgery.*
- WILLIAM THEODORE WENZELL, M.D., PH.G., PH.M...113 Fulton Street,  
San Francisco.  
*Professor of Chemistry in the College of Pharmacy.*
- , -----  
*Agassiz Professor of Oriental Languages and Literature.*
- , -----  
*Professor of Municipal Law.*
- CORNELIUS BEACH BRADLEY, A.M.....668 Eighteenth Street, Oakland.  
*Assistant Professor of the English Language and Literature.*
- JOHN BERNARD CLARK, PH.B.....1736 Thirteenth Street, Oakland.  
*Assistant Professor of Mathematics.*
- GEORGE CUNNINGHAM EDWARDS, PH.B...1568 Webster Street, Oakland.  
*Assistant Professor of Mathematics.*
- EDWARD LEE GREENE, PH.B.....Third University Cottage, Berkeley.  
*Assistant Professor of Botany.*

- WILLIAM CAREY JONES, A.M.... Bancroft Way, near Dana Street, Berkeley.  
*Assistant Professor of History, and Instructor in Constitutional and Roman Law.*
- FREDERICK SLATE, B.S.... Audubon Street, near Bancroft Way, Berkeley.  
*Assistant Professor of Physics and Mechanics.*
- WILLIAM WHITE DEAMER, A.B.....523 Seventeenth Street, Oakland.  
*Instructor in Latin, and Recorder of the Faculties.*
- HERMANN KOWER, C.E.....Fruit Vale.  
*Instructor in Instrumental Drawing.*
- CHARLES HERBERT LEVERMORE, PH.D.... Durant Avenue, near Bow-  
ditch Street, Berkeley.  
*Instructor in History.*
- EDMOND CHARLES O'NEILL, PH.B.....Corner Eighth and Broadway  
Streets, Oakland.  
*Instructor in Chemistry.*
- FELICIEN VICTOR PAGET, B.S., B.L.....813 Hyde Street, San Francisco.  
*Instructor in the French and Spanish Languages.*
- WILLIAM GALT RAYMOND, C.E.....Channing Way, near Fulton Street,  
Berkeley.  
*Instructor in Civil Engineering.*
- JOACHIM HENRY SENDER, A.B.....2122 Steiner Street, San Francisco.  
*Instructor in German and Greek.*
- FRANCIS HOVEY STODDARD, A.M.....Berkeley.  
*Instructor in English.*
- DOUGLAS WILLIAM MONTGOMERY, M.D. ....  
*Lecturer on Histology and Pathology, and Curator.*
- EDWARD JAMES WICKSON, A.M....Atherton Street, near Bancroft Way,  
Berkeley.  
*Lecturer on Practical Agriculture, and Assistant Superintendent of the Experimental  
Grounds.*
- JAMES P. HAMSTON DUNN, B.S. ....Claremont.  
*Assistant in Chemistry.*



# UNIVERSITY OF CALIFORNIA.

## UNDERGRADUATE DEPARTMENTS AT BERKELEY.

### INCLUDING

- |  |                                  |
|--|----------------------------------|
| 1. COLLEGE OF LETTERS.                       | 2. COLLEGE OF AGRICULTURE.       |
| (a) CLASSICAL COURSE.                        | 3. COLLEGE OF MECHANICS.         |
| (b) LITERARY COURSE.                         | 4. COLLEGE OF MINING.            |
| (c) COURSE IN LETTERS AND POLITICAL SCIENCE. | 5. COLLEGE OF CIVIL ENGINEERING. |
| 6. COLLEGE OF CHEMISTRY.                     |                                  |

### ACADEMIC STAFF.

- E. S. HOLDEN, LL.D., President of the University.
- GEORGE WOODBURY BUNNELL, A.M., Professor of the Greek Language and Literature.
- SAMUEL B. CHRISTY, PH.B., Professor of Mining and Metallurgy
- ALBERT S. COOK, PH.D., Professor of the English Language and Literature.
- GEORGE DAVIDSON, PH.D., Honorary Professor of Geodesy and Astronomy.
- STEPHEN J. FIELD, LL.D., Honorary Professor of Law.
- GEORGE F. E. HARRISON (First Lieutenant Second U. S. Artillery), Professor of Military Science and Tactics.
- FREDERICK G. HESSE, Professor of Mechanical Engineering.
- EUGENE W. HILGARD, PH.D., LL.D., Professor of Agriculture, Agricultural Chemistry, General and Economic Botany.
- GEORGE H. HOWISON, LL.D., Mills Professor of Intellectual and Moral Philosophy and Civil Polity.
- A. WENDELL JACKSON, JR., PH.B., Professor of Mineralogy, Petrography, and Economic Geology.
- MARTIN KELLOGG, A.M., Professor of the Latin Language and Literature.
- JOHN LeCONTE, M.D., LL.D., Professor of Physics.
- JOSEPH LeCONTE, M.D., LL.D., Professor of Geology and Natural History.
- BERNARD MOSES, PH.D., Professor of History and Political Economy.
- ALBIN PUTZKER, Professor of German.
- WILLARD B. RISING, M.E., PH.D., Professor of Chemistry.
- FRANK SOULÉ (U. S. Military Academy), Professor of Civil Engineering and Astronomy.
- IRVING STRINGHAM, PH.D., Professor of Mathematics, Dean of the College of Letters and the Colleges of Science.
- C. B. BRADLEY, A.M., Assistant Professor of the English Language and Literature.

JOHN B. CLARK, PH.B., Assistant Professor of Mathematics.  
GEORGE C. EDWARDS, PH.B., Assistant Professor of Mathematics.  
EDWARD LEE GREENE, Assistant Professor of Botany.  
WILLIAM CAREY JONES, A.M., Assistant Professor of United States History, and Instructor in Roman and Constitutional Law.  
FREDERICK SLATE, Assistant Professor of Physics and Mechanics.  
W. W. DEAMER, A.B., Instructor in Latin and Greek.  
HERMANN KOWER, C.E., Instructor in Instrumental Drawing.  
CHARLES H. LEVERMORE, PH.D., Instructor in History.  
EDMOND C. O'NEILL, PH.B., Instructor in Chemistry.  
F. V. PAGET, B.S., B.L., Instructor in the French and Spanish Languages.  
WILLIAM G. RAYMOND, C.E., Instructor in Civil Engineering.  
J. HENRY SENDER, A.B., Instructor in German.  
FRANCIS H. STODDARD, A.M., Instructor in English.  
E. J. WICKSON, A.M., Lecturer on Practical Agriculture, and Assistant Superintendent of the Experimental Grounds.

---

JAMES P. H. DUNN, B.S., Assistant in Chemistry.

---

#### ASSISTANTS AND OTHER OFFICERS.

MYER E. JAFFA, PH.B., First Assistant in the Viticultural Laboratory.  
FREDERICK W. MORSE, PH.B., Assistant in the General Agricultural Laboratory.  
GEORGE ELDEN COLBY, PH.B., Second Assistant in the Viticultural Laboratory.  
ADOLPH SOMMER, PH.G., Assistant in Chemistry.  
HENRY E. DIKEMAN, B.S., Assistant in Physics.  
FRANKLIN BOOTH, Student Assistant in the Metallurgical Laboratory.  
JOSEPH A. SLADKY, Superintendent of the Machine Shops.  
JOSEPH C. ROWELL, A.B., Librarian.  
J. J. RIVERS, Curator of the University Museum.

# UNIVERSITY OF CALIFORNIA.

---

## MEDICAL DEPARTMENT.

### FACULTY.

- HORACE DAVIS, A.B., President of the University.
- G. A. SHURTLEFF, M.D., Emeritus Professor of Mental Diseases and Medical Jurisprudence.
- M. W. FISH, M.D., Emeritus Professor of Physiology and Microscopy.
- E. BEVERLY COLE, A.M., M.D., M.R.C.S., Eng., Professor of Obstetrics and Gynecology.
- W. P. McNUTT, M.D., M.R.C.P., Edin., Professor of Principles and Practice of Medicine.
- ROBERT A. McLEAN, M.D., Professor of Clinical and Operative Surgery, Dean.
- W. E. TAYLOR, M.D., Professor of Principles and Practice of Surgery.
- F. B. KANE, M.D., F.R.C.S.I., Professor of Clinical Medicine and Pathology.
- A. L. LENGFELD, M.D., Professor of Materia Medica and Medical Chemistry.
- WILLIAM B. LEWITT, M.D., Professor of Anatomy.
- BENJAMIN R. SWAN, M.D., Professor of Diseases of Children.
- WILLIAM H. MAYS, M.D., Professor of Mental Diseases and Medical Jurisprudence.
- WASHINGTON AYER, M.D., Professor of Hygiene.
- GEORGE H. POWERS, A.M., M.D., Professor of Ophthalmology and Otology.
- WILLIAM WATT KERR, A.M., M.B., C.M., Professor of Therapeutics.
- ARNOLD A. D'ANCONA, A.B., M.D., Professor of Physiology and Microscopy.
- 

- DOUGLAS W. MONTGOMERY, M.D., Lecturer on Histology and Pathology, Curator.
- JOHN M. WILLIAMSON, M.D., Demonstrator of Anatomy.
- 

- WINSLOW ANDERSON, M.D., Assistant to the Chair of Materia Medica and Medical Chemistry.
- JULES SIMON, M.D., Assistant to the Chair of Mental Diseases and Medical Jurisprudence.
- JOHN H. BARBAT, Ph.C.M.D., Assistant Demonstrator of Anatomy.

**College Dispensary Staff.**

C. G. KENYON, M.D., Surgery.

JULES SIMON, M.D., Nervous Diseases.

LUKE ROBINSON, M.D., M.R.C.P., Eng., Diseases of Women.

H. W. DODGE, M.D., Medicine.

D. W. MONTGOMERY, M.D., Diseases of the Skin.

---

The Preliminary Term begins March fourth.

The Regular Term begins June third.

Graduates of Dental Colleges in good standing are admitted to the second year without examination.

ROBERT A. McLEAN, M.D., Dean,  
603 Merchant Street, corner of Montgomery,  
San Francisco, California.

# CALIFORNIA COLLEGE OF PHARMACY.

(DEPARTMENT OF PHARMACY, UNIVERSITY OF CALIFORNIA.)

## FACULTY.

HORACE DAVIS, A.B., President of University of California.

WILLIAM T. WENZELL, M.D., PH.G., PH.M., Professor of Chemistry.

HERMANN H. BEHR., M.D., Professor of Botany.

WILLIAM M. SEARBY, Professor of Materia Medica.

EDWARD W. RUNYON, PH.G., Professor of Pharmacy.

The Seventeenth Annual Course will begin April 1, 1889, and continue to October first of the same year. Lectures will be delivered on Chemistry, Materia Medica, Botany, Theoretical and Practical Pharmacy. Arrangements have been made to provide Laboratory Instruction in Chemical and Pharmaceutical Work, and in every respect efforts will be made to keep pace with the rapid advancement of Pharmaceutical Science.

## REQUIREMENTS FOR ADMISSION.

Every applicant for admission to the regular course for graduation at this College will be required to pass a preliminary examination, or to present a diploma or other satisfactory written evidence that he has passed the first grammar grade, and is entitled to enter a High School of this State, or has attended some academy of a grade equal to that of our High Schools. Those who do not present such certificates will be examined in English reading and composition, writing, geography, and arithmetic.

Candidates will therefore be at the college on Friday, March twenty-ninth, at 9 A. M., for the purpose of matriculating, when those who are possessed of satisfactory certificates will be allowed to matriculate without examination, and all others will be examined in the above mentioned branches.

## REQUIREMENTS FOR GRADUATION.

Every person upon whom the diploma of Graduate in Pharmacy shall be conferred must be of good moral character, shall have attained the age of twenty-one years, and attended two full courses in each of the departments of this college, or one course (the Senior) in this, after a course in some other recognized College of Pharmacy. He must have had, inclusive of the time of attendance at this College, four years' experience in a pharmacy where prescriptions are compounded, and must have attended the senior laboratory course of this college. No special examination will be held for candidates for the degree, but only an examination at the end of the regular course. Students failing to attend less than two thirds of the lectures in each chair will not be allowed to enter the final examinations.

He must present a *thesis* to the Dean on or before the first of September. The thesis must be an original dissertation upon some subject relating to Pharmacy or its collateral branches, or a chemical analysis conducted by himself.



It must be written by the candidate himself, in the English language, and on the regular thesis paper furnished by the College, so as to admit of being bound uniformly with the others in volumes for preservation.

Candidates must be recommended jointly by the Faculty and Examining Board to the Regents of the University of California, by whom the Degree is conferred (the College of Pharmacy being affiliated with the University).

#### FEES.

Matriculation (paid but once) .....	\$2 50
Botany (for each term).....	12 50
Chemistry (for each term).....	12 50
Pharmacy (for each term).....	12 50
Materia Medica (for each term) .....	12 50
Fee for Final Examination, payable but once, and not refunded in case of failure.....	10 00
Certificate of Proficiency .....	2 00
Latin (optional) for the term .....	5 00
Review class for each branch for the term.....	1 50
Laboratory instruction for Juniors for the term.....	5 00
Laboratory instruction for Seniors for the term .....	10 00

#### PHARMACISTS ENTERING MEDICAL COLLEGES.

Graduates in Pharmacy of this College are permitted to present themselves for examination for the Degree of Doctor of Medicine in the medical department of the University of California and in the Cooper Medical College, after attending either of these schools two years instead of three, as required of other students. The fees have also been reduced in like proportion to graduates in Pharmacy. This generous concession is a gratifying evidence of the value of pharmaceutical instruction, and should not be overlooked by young men who design to make the practice of medicine their ultimate object.

Graduates of such Medical Colleges as are recognized by the American Medical Association will be permitted to present themselves for examination for the degree after one year's attendance at this College, provided they have complied with all the other conditions for graduation.

Other students, not intending to pursue pharmacy as their vocation, will be admitted to the lectures, or any one of the courses they may desire to attend, by paying the matriculation fee and that of the chair or chairs of instruction. They may be examined in the special subject or subjects with the students of the Senior Class, and Certificates of Proficiency will be awarded to them on the same conditions as to the regular students. Special students will not, in any case, be eligible for the Degree of Graduate in Pharmacy.

**A Gold Medal, Scientific Apparatus, and a Free Scholarship** will be bestowed in each session. For particulars, see Prospectus.

**A Library and Reading-room** is open daily, and is free to the use of students.

Assistants seeking situations, and employers wanting clerks, should register their names in the College.

*For prospectus, terms, and further information, address,*

EDWARD W. RUNYON, *Dean of the Faculty,*

53 STEVENSON STREET, SAN FRANCISCO, CAL.



THE LIBRARY OF THE  
FEB 26 1931  
UNIVERSITY OF ILLINOIS.









# ANNOUNCEMENT

OF THE

## COLLEGE OF DENTISTRY

THE LIBRARY OF THE

OF THE FEB 26 1931

UNIVERSITY OF ILLINOIS.

UNIVERSITY OF CALIFORNIA,

FOR ITS

NINTH SESSION,

Commencing February 3, 1890, and Ending October 31, 1890.

---

*N. B.—Those who wish to receive the Announcement are requested to forward their Names and Addresses to the Dean.*

---

SACRAMENTO:

STATE OFFICE : : : J. D. YOUNG, SUPT. STATE PRINTING.

1890.



# ANNOUNCEMENT

OF THE

## COLLEGE OF DENTISTRY

THE LIBRARY OF THE

FEB 26 1931

OF THE

UNIVERSITY OF ILLINOIS.

UNIVERSITY OF CALIFORNIA,

FOR ITS

NINTH SESSION,

Commencing February 3, 1890, and Ending October 31, 1890.

---

*N. B.—Those who wish to receive the Announcement are requested to forward their Names and Addresses to the Dean.*

---

SACRAMENTO :

STATE OFFICE : : : J. D. YOUNG, SUPT. STATE PRINTING.

1890.





## CONTENTS.

---

	PAGE.
DIRECTORY .....	2
BOARD OF REGENTS.....	3
FACULTY.....	4
ANNOUNCEMENT.....	5
COMMENCEMENT OF TERM .....	9
SCHEDULE OF STUDY .....	9
REQUIREMENTS FOR ADMISSION.....	9
DATE OF PRELIMINARY EXAMINATION .....	10
JUNIOR EXAMINATIONS.....	10
REQUIREMENTS FOR GRADUATION .....	10
FEES .....	11
TEXT-BOOKS .....	11
OUTLINE OF COURSE OF STUDY .....	12
STUDENTS 1889 .....	16
COMMENCEMENT EXERCISES.....	17
GRADUATES .....	18
ACADEMIC SENATE .....	20
LITERARY AND SCIENTIFIC DEPARTMENTS.....	24
MEDICAL DEPARTMENT .....	26
PHARMACEUTICAL DEPARTMENT.....	27

## OFFICE DIRECTORY.

---

### IN BERKELEY.

The office of the PRESIDENT is Room No. 2, *North Hall*.

The office of the RECORDER is Room No. 28, *North Hall*.

The office of the SECRETARY and office of the BOARD OF REGENTS is in *South Hall*.

The office of the LAND AGENT is in *South Hall*.

The office of the MANAGER OF THE UNIVERSITY PRINTING PRESS is No. 27, *North Hall*.

---

### IN SAN FRANCISCO.

The office of the REGISTRAR OF THE COLLEGE OF LAW is No. 230 Montgomery Street.

Lectures in the COLLEGE OF LAW are delivered in the Assembly Room of the Society of Pioneers, No. 808 Montgomery Street.

The office of the DEAN OF THE MEDICAL FACULTY is No. 603 Merchant Street.

The COLLEGE OF MEDICINE is situated on Stockton Street, between Chestnut and Francisco, in Toland Hall.

The Medical and Surgical Clinics of the COLLEGE OF MEDICINE are held at the City and County Hospital, Twenty-second Street and Potrero Avenue.

The Dispensary Clinics of the COLLEGE OF MEDICINE are held in Toland Hall.

The office of the DEAN OF THE DENTAL FACULTY is No. 500 Sutter Street.

Lectures in the COLLEGE OF DENTISTRY are delivered in Toland Hall, Stockton Street, between Chestnut and Francisco.

The office of the DEAN OF THE COLLEGE OF PHARMACY is No. 53 Stevenson Street.

The COLLEGE OF PHARMACY is situated at No. 113 Fulton Street, between Polk Street and Van Ness Avenue.

The office of the BOARD OF REGENTS is in Mechanics' Institute Library, 31 Post Street.

The office of the TREASURER OF THE BOARD OF REGENTS is 310 Sansome Street.

# UNIVERSITY OF CALIFORNIA.

## BOARD OF REGENTS.

### EX OFFICIO REGENTS.

HIS EXCELLENCY R. W. WATERMAN,	- - - - -	SACRAMENTO.
<i>Governor, ex officio President of the Board.</i>		
HIS HONOR S. M. WHITE,	- - - - -	LOS ANGELES.
<i>Lieutenant-Governor.</i>		
HON. ROBERT HOWE,	- - - - -	SONOMA.
<i>Speaker of the Assembly.</i>		
HON. IRA G. HOITT,	- - - - -	SACRAMENTO.
<i>State Superintendent of Public Instruction.</i>		
HON. CHRISTOPHER GREEN,	- - - - -	SACRAMENTO.
<i>President of the State Agricultural Society.</i>		
DAVID KERR, Esq.,	- - - - -	SAN FRANCISCO.
<i>President of the Mechanics' Institute.</i>		
HORACE DAVIS, A.B.,	- - - - -	SAN FRANCISCO.
<i>President of the University.</i>		

### APPOINTED REGENTS.\*

NAME.	ADDRESS.	TERM EXPIRES.
REV. HORATIO STEEBINS, D.D.,	1609 Larkin Street, San Francisco,	- 1894
HON. JOHN S. HAGER, LL.D.,	San Francisco, - - - - -	- 1894
HON. J. WEST MARTIN,	Oakland, - - - - -	- 1898
CHAS. F. CROCKER, Esq.,	Fourth and Townsend, San Francisco,	1904
A. S. HALLIDIE, Esq.,	9 Fremont Street, San Francisco,	- 1892
HON. WILLIAM T. WALLACE,	799 Van Ness Avenue, San Francisco,	1902
JOHN L. BEARD, A.M.,	Centreville, - - - - -	- 1892
J. F. HOUGHTON, Esq.,	Palace Hotel, San Francisco,	- - 1904
HON. T. GUY PHELPS,	Belmont, - - - - -	- 1896
I. W. HELLMAN, Esq.,	Los Angeles, - - - - -	- 1902
GEORGE T. MARYE, JR., LL.B.,	234 Montgomery Street, San Francisco,	1898
ARTHUR RODGERS, A.B., Ph.B.,	309 Montgomery Street, San Francisco,	1890
GEORGE J. AINSWORTH, Ph.B.,	North Temescal, - - - - -	- 1900
D. M. DELMAS, A.M.,	327 Pine Street, San Francisco,	- - 1900
ALBERT MILLER, Esq.,	S. F. Savings Union, San Francisco,	- 1890
COLUMBUS BARTLETT, Esq.,	12 Montgomery Street, San Francisco,	1896
J. H. C. BONTÉ, D.D., Secretary, Berkeley.		

Regular meetings of the Board of Regents are held thirteen times a year, viz.: on the second Tuesday in each and every month, and on the Tuesday preceding the last Wednesday in June.

\* In the order of original appointment.

# UNIVERSITY OF CALIFORNIA.

## COLLEGE OF DENTISTRY.

TOLAND HALL, STOCKTON STREET, BELOW CHESTNUT, SAN FRANCISCO, CALIFORNIA.

### FACULTY.

HORACE DAVIS, A.B., *President of the University, and ex officio President of the Faculty.*  
JOSEPH LE CONTE, M.D., LL.D., *Honorary Professor of Biology.*  
C. L. GODDARD, A.M., D.D.S., *Professor of Orthodontia and Dental Metallurgy.*  
L. L. DUNBAR, D.D.S., *Dean, and Professor of Operative Dentistry and Dental Histology.*  
MAURICE J. SULLIVAN, D.D.S., *Professor of Dental Pathology and Therapeutics.*  
W. E. TAYLOR, M.D., *Professor of Principles and Practice of Surgery.*  
A. L. LENGFELD, M.D., *Professor of Materia Medica and Medical Chemistry.*  
WILLIAM B. LEWITT, M.D., *Professor of Anatomy.*  
A. A. D'ANCONA, A.B., M.D., *Professor of Physiology.*

### LECTURERS, DEMONSTRATORS, AND ASSISTANTS.

CHARLES BOXTON, D.D.S., *Lecturer on Mechanical Dentistry.*  
JOHN M. WILLIAMSON, M.D., *Lecturer on Descriptive Anatomy.*  
J. L. ASAY, M.D., *Lecturer on Oral Surgery.*  
HARRY P. CARLTON, D.D.S., *Demonstrator of Operative Dentistry.*  
CHARLES BOXTON, D.D.S., *Demonstrator of Mechanical Dentistry.*  
M. F. GABBS, D.D.S., *Demonstrator of Continuous Gum Work.*  
J. T. ROWAND, D.D.S., *Demonstrator of Crown and Bridge Work.*  
JOHN H. BARBAT, Ph.G., M.D., *Demonstrator of Anatomy.*  
WINSLOW ANDERSON, M.D., *Assistant to the Chair of Materia Medica and Medical Chemistry.*  
EUGENE PAYNE, D.D.S., *Assistant Demonstrator of Operative Dentistry.*  
EDWARD N. SHORT, D.D.S., *Assistant Demonstrator of Operative Dentistry.*  
S. A. HACKETT, D.D.S., *Assistant Demonstrator of Mechanical Dentistry.*  
EDWARD W. PRATT, D.D.S., *Assistant Demonstrator of Mechanical Dentistry and Metallurgy.*  
CLARK H. RAWSON, *Superintendent of Infirmary.*

### CLINICAL INSTRUCTORS.

GEO. H. CHANCE .....	Portland, Oregon.
H. C. DAVIS, L.D.S. ....	San Francisco.
WARREN DECROW .....	San José.
W. B. KINGSBURY .....	Santa Clara, California.
H. E. KNOX, D.D.S. ....	Oakland.
F. J. LANE, D.D.S. ....	Oakland.
A. F. McLAIN, M.D., D.D.S. ....	Santa Rosa, California.
W. E. PRICE, D.D.S. ....	San Francisco.
MAX SICHEL .....	San Francisco.
E. L. TOWNSEND, D.D.S. ....	Los Angeles.
L. VAN ORDEN, M.D. ....	San Francisco.
W. WOOD .....	Sacramento.

L. L. DUNBAR, Dean,  
No. 500 Sutter Street, San Francisco.

## ANNOUNCEMENT.

---

On the third of February, 1890, the College of Dentistry of the University of California will commence its ninth annual session. The work of the past will speak for itself, and we feel that a great future is before us. The Faculty promise, individually and collectively, to do their utmost to further the cause of professional education and advancement.

Although still among the younger of the Dental Colleges of the United States, which now number twenty-five or more, it has always maintained a high standard.

It was the second College in the United States to adopt a nine-months' course of lectures.

It was the third College to require three years' study before graduation.

It was the third College to require a preliminary examination.

The plan of giving a longer term of lectures and requiring a longer time of study was adopted because the Faculty was fully convinced that two years' study, with two courses of five or six months each, could not really fit students for actual practice. Now more time is given for practice in the Infirmary and for the study of text-books, which is a matter of great importance.

Commencing with the session of 1892 attendance upon three full terms will be required of all matriculates.

The College was started through the courtesy of the College of Medicine of the University of California, to which we have been indebted for lecture and clinic rooms, and for many opportunities afforded our students to attend medical lectures.

As no financial aid or support has been given by the State, and the amount of subscription was small, the Faculty has had to depend upon the fees of students for providing necessary equipment and maintaining the College after it was established.

Joseph Le Conte, M.D., LL.D., Honorary Professor of Biology, will deliver a special course upon that subject before the class. His eminent ability as a scholar and lecturer cannot help attracting the attention of scientific men in our profession to the dignity of the school, and the character of its curriculum, as well as making a marked impression on the discipline and culture of the classes.

While the Undergraduate Departments of the University are clustered at Berkeley, the Professional Colleges are, for convenience of clinical study, conducted wholly in San Francisco.

The College is beautifully situated, well ventilated and lighted, and admirably constructed and arranged for the work in hand. There is always an abundance of clinical material, both operative and mechanical, as well as pathological, drawn from a heterogeneous population of between 300,000 and 350,000. There are seven Professors in the College, besides a corps of able and earnest assistants and demonstrators, both operative and mechanical. The Didactic Professors deliver two lectures per week each, as will be seen on the schedule of instruction.



Wednesday afternoon of each week is set apart for Clinical Instructors, and two or more are required to operate each week during the term.

The main lecture hall of the College is capable of seating five hundred persons. The clinical amphitheater is about equally capacious.

The museum contains an extensive collection of specimens and preparations.

The dissecting room is fitted up with all the modern improvements.

The laboratory is replete with all chemicals and apparatus necessary for practical teaching.

A suite of apartments in the building is set apart for the dispensary clinics.

There are two large and convenient dental operating rooms, with windows of extra width and height, thus giving light that is unsurpassed. These are furnished with Morrison, Archer, and Cycloid chairs, and handsome operating stands, which will be assigned to students in the order of their matriculation.

The dental laboratory is commodious, and furnished with benches, lathes, furnaces for melting, forge, rolling mill, continuous gum furnaces, and all other requisites for thorough work. Each student is required to furnish his own instruments and tools, and will be provided with a separate drawer in which they can be securely locked; also with a separate bench, provided with gas for heating purposes.

Those who have instruments and laboratory tools and appliances, should bring them; those who have not, are advised to defer purchasing till they arrive. Lists will be furnished when desired. During the hours devoted to operative or mechanical dentistry, competent Demonstrators will be present to assist the students in their operations. The Superintendent of Infirmary will receive and assign patients to students, and will have general supervision of the infirmary.

Both the Medical and Dental Departments of the University of California, *unlike corresponding Colleges in the Eastern States*, have their regular term in the spring and summer.

# SESSION OF 1890.

*Term commences February 4, 1890, and closes October 31, 1890.*

## SCHEDULE OF STUDY—ORDER OF LECTURES AND CLINICS.

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.
9 A. M. to 10 A. M.	Dental Pathology and Therapeutics, Prof. SULLIVAN.	CLINIC, 9 to 12, Operative Dentistry, Dr. CARLTON.	Operative Dentistry, Crown and Bridge Work, Dr. ROWLAND.	CLINIC, 9 to 12, Operative Dentistry, Dr. PAYNE.	CLINIC, 9 to 11, Operative Dentistry.
10 A. M. to 11 A. M.	LECTURE, Chemistry, Prof. LENGFELD.				
11 A. M. to 12 M.	LECTURE, Surgery, Prof. TAYLOR.		LECTURE, Chemistry, Prof. LENGFELD.		LECTURE, Surgery, Prof. TAYLOR.
12 M. to 1 P. M.	Operative Clinic and CLINIC, 12 to 4, on Mechanical Dentistry, Dr. HACKETT.	CLINIC, 12 to 3, Mechanical Dentistry and Operative Clinic. Dr. SHORT.	CLINICAL INSTRUCTORS,  from 2 to 4.	Operative Clinic and CLINIC, 12 to 3, on Mechanical Dentistry, Dr. BOXTON.	Operative Clinic and CLINIC, 12 to 4, Mechanical Dentistry.
1 P. M. to 2 P. M.					
2 P. M. to 3 P. M.					
3 P. M. to 4 P. M.		LECTURE, Physiology, Prof. D'ANCONA.	LECTURE, Dental Metallurgy and Orthodontia, Prof. GODDARD.	LECTURE, Physiology, Prof. D'ANCONA.	
4 P. M. to 5 P. M.	LECTURE, Anatomy, Prof. LEWITT.	LECTURE, Mechanical Dentistry, Dr. BOXTON.		LECTURE, Mechanical Dentistry, Dr. BOXTON.	LECTURE, Anatomy, Prof. LEWITT.
5 P. M. to P. M.	LECTURE, Operative Dentistry, Prof. DUNBAR.	LECTURE, Dental Pathology and Therapeutics, Prof. SULLIVAN.	DISSECTING.	DISSECTING.	LECTURE, Operative Dentistry, Prof. DUNBAR.
SATURDAY, from 9 A. M. to 12 M., OPERATIVE CLINICS AND HOSPITAL CLINICS, MEDICAL AND SURGICAL.					

## REQUIREMENTS FOR ADMISSION.

Every candidate for admission must be eighteen years of age, must present to the Faculty satisfactory evidence of a good moral character, and must be examined as to his previous education and fitness to appreciate the technical study of Dentistry. The examinations will be chiefly in writing; and will embrace the following subjects, viz.:

1. Arithmetic.
2. Geography.
3. English Grammar and Composition.
4. United States History.
5. Natural Philosophy. (Refer to Avery's Natural Philosophy, Peck's Ganot's Introductory Course in Natural Philosophy, or an equivalent.)
6. Elementary Chemistry. (Refer to Mead's Chemical Primer, Elliot and Storer's Chemistry, Avery's Chemistry, or an equivalent.)

No matriculation examination will be required of those who have passed the entrance examination of the University of California or of any other recognized College or University, nor of graduates of any recognized academy or high school, nor of those holding teachers' certificates.

In order to secure a release from this examination, the candidate must present his diploma or certificate of examination or graduation.

### PRELIMINARY EXAMINATION.

The preliminary examination for the Session of 1890 will be held in San Francisco, at the College building (Toland Hall), Stockton Street, near Francisco, Monday, January 27, at 9 o'clock A. M. Students desiring to present themselves at this examination will please call previously at the office of the Dean, 500 Sutter Street.

### THREE YEARS' STUDY.

The course of study and instruction is divided into three years—Freshman, Junior, and Senior.

Students who present certificates of one year's study with a preceptor will be admitted to the Junior Class. These certificates must be made out on blanks, which may be obtained from the Dean.

At the commencement of the Session of 1892 this College will enforce the rule of the National Association of Dental Faculties, as per resolution adopted at their annual meeting held August 5, 1889, viz.: "That all Colleges of the Association require an attendance upon three full regular courses in separate years before examination for graduation."

### JUNIOR EXAMINATIONS.

At the end of the Junior year students will be examined in Anatomy, Physiology, Chemistry (or *Materia Medica*), Histology, and Mechanical Dentistry, and those who are qualified will receive certificates of admission to the Senior Class.

### REQUIREMENTS FOR GRADUATION.

The candidate for the Degree of Doctor of Dental Surgery must have attained the age of twenty-one years, and be of good moral character.

He shall have passed a satisfactory examination, both oral and written.

He shall have studied Dentistry *three* years, including the time spent in attending lectures.

He shall have attended two full courses in the Dental Department of the University of California, or one year in some other reputable Dental College, and the second or last in this College.

He shall subscribe to Article II, Section 3, of the Code of Ethics of the American Dental Association.

He *may* write an original thesis upon some subject pertaining to Dentistry or Medicine.

The written examination is required in lieu of a thesis.

The candidate is required to dissect at least two upper quarters. He must treat thoroughly some patient, requiring all the usual dental operations, and bring such patient before the Professors of Operative Dentistry and Dental Pathology and Therapeutics. He must also complete at least one artificial case, insert at least one crown or piece of bridge work, and, after completion, bring his patient before the Chief Demonstrator of Mechanical Dentistry at least thirty days before the close of the term. He must treat one case of irregularity, and, after the case is completed, bring his patient before the Professor of Orthodontia one month before the close of the term. He must also prepare

a specimen case, to be deposited in the College collection, and present the same to the Chief Demonstrator of Mechanical Dentistry before the first of October. The operating must be performed, and the work on the artificial cases done, at the College building, and exclusively by the applicant for the degree.

Graduates in medicine may apply for the Degree of Doctor of Dental Surgery after having had two full years of practical instruction or experience in dentistry, one year of which, including one course of lectures, must be spent in the Dental Department of the University of California.

Beginning with the session of 1892, graduates in medicine will be admitted to the second year.

After these requirements have been complied with, upon the recommendation of the Faculty and approval of the Board of Regents, the candidate shall receive the Degree of Doctor of Dental Surgery.

### FEES.

The Marticulation Fee will be (paid once) .....	\$5 00
Tuition, first year .....	120 00
Tuition, second year .....	120 00
Tuition, third year, to those who have paid for first and second year...	Free.
Fee of Demonstrator of Anatomy, each year .....	10 00
Diploma Fee .....	30 00

### TEXT-BOOKS.\*

The following books will be needed during the course of study. Students are advised to procure at least the first six at the beginning of the first year, and to add the others before the Senior year:

1. Dental Dictionary, Harris, or Medical Dictionary, Dunglison or Thomas.
2. Anatomy, Gray, Quain, or Holden.
3. Physiology, Dalton.
4. Mechanical Dentistry, Richardson or Harris.
5. Operative Dentistry, Taft, Harris, or Fillebrown.
6. Dental Chemistry, Mitchell.
7. Dental Anatomy, Tomes.
8. Orthodontia, Guilford.
9. Dental Metallurgy, Essig.
10. Dental Materia Medica and Therapeutics, Gorgas or Stockens.
11. Surgery, Ashurst or Bryant.
12. Therapeutics, Wood, Biddle, or Bartholow.
13. Dental Pathology, Wedl.
14. Chemistry, Lloyd or Barclay.
15. Materia Medica, United States Dispensatory or National Dispensatory.

### ADDITIONAL BOOKS FOR REFERENCE.

Oral Surgery, Garretson.  
 American System of Dentistry, Litch.  
 Histology, Stricker, Frey, Beal, or Wythe.  
 Microscopical Morphology, Heitzman.  
 Pathology, Wagner.  
 Oral Deformities, Kingsley.  
 Nitrous Oxide, Guilford.  
 Mechanical Dentistry, Haskell.

---

\* When "or" is used between authors, students may choose either.



## OUTLINE OF THE COURSE OF STUDY.

---

### BIOLOGY.

Professor Joseph Le Conte will deliver a series of lectures on the Correlation of Vital with Physical and Chemical Forces; also, upon the Homologies of the Vertebrate Skeletons.

### OPERATIVE DENTISTRY AND DENTAL HISTOLOGY.

The course of instruction in this department will be as comprehensive and thorough as improved appliances and methods can make it, and will embrace both the didactic and clinical courses.

Intra and extra uterine development of the teeth will be fully considered from the *primary* germ to the final loss of the permanent teeth.

Recent microscopical investigations in Dental Histology will be fully illustrated with new slides, micro-photographs, and every efficient aid to an intimate knowledge of minute dental structure.

It will be the aim of the department to make the entire course of lectures from the chair as practical as possible, by a comparison of old and new methods, with a complete analysis of recent innovations in operative procedure.

### MECHANICAL DENTISTRY.

The instruction in Mechanical Dentistry will embrace everything necessary to enable the dentist successfully to supply substitutes for lost dental organs.

Special reference will be made to the principles involved in the restoration of the natural functions of the teeth, namely: mastication, enunciation, and expression of the features, keeping in view always the health and the future usefulness of the living parts.

The instruction is divided into two courses, as follows:

*Junior Course.* Lectures on the treatment of the mouth and teeth preparatory to inserting artificial dentures; impressions in wax and plaster; casts; the manufacture of artificial teeth, their selection and arrangement for special cases; application of atmospheric pressure to artificial dentures; properties and uses in the construction of dentures, of wax, plaster, shellac, sandarach, rubber, and celluloid.

*Senior Course.* Lectures on the construction of instruments, of dies and counter-dies, of models of the mouth, and of molds; construction of dentures on bases of gold, silver, and aluminum; continuous gum work.

The construction of crown and bridge work will receive the attention of a special Demonstrator.

### ORTHODONTIA AND DENTAL METALLURGY.

The correction of irregularities of the natural teeth, as well as the causes will be treated at length and illustrated by means of drawings and numerous casts of practical cases. Much more attention is paid to this subject by the profession than formerly, and an endeavor will be made to keep the classes posted in regard to all new and valuable methods.



The instruction in *Dental Metallurgy*, including the properties and uses of gold, silver, platinum, aluminum, zinc, lead, tin, and their alloys, and of iron and steel, will be made more complete than heretofore. Special attention will be paid to refining and alloying gold, and to estimating its fineness. Practical laboratory instruction will be given in working of the metals, and each student will be required to conduct all the usual operations in dental metallurgy, as well as to make experiments in new compounds and alloys. Considerable attention will be paid to the analysis and compounding of amalgam alloys.

### PHYSIOLOGY.

The lectures in this department, by Professor D'Ancona, embrace a consideration of both General and Special Physiology, including all that has been developed up to the present time, and are illustrated by the largest and most complete series of colored drawings in the United States, prepared exclusively for these lectures; besides which, the vast collection of preparations and drawings of the Scientific Department at Berkeley are at the command of the Professor. Vivisections are practiced when necessary to demonstrate principles, and the microscope is freely used for illustrating important facts and principles.

### SURGERY.

Professor Taylor delivers two lectures each week on the Art and Science of Surgery. The more recent views on the management of surgical conditions, and the appliances devised for their relief, are particularly dwelt upon, and illustrated with drawings and models when necessary. This course will include a series of lectures upon Operative Surgery, with demonstrations on the cadaver. The student will be drilled in the manipulation of instruments used in the various operations.

In addition to his usual course of lectures on surgery, he will pay particular attention to surgical diseases, and injuries of the head, face, jaws, and mouth.

### CHEMISTRY AND MATERIA MEDICA.

Professor Lengfeld will spare no effort to make the course in Chemistry and Materia Medica thoroughly practical and instructive. All important principles are illustrated by means of suitable philosophical, chemical, and other apparatus, and facts and theories are presented in a clear and comprehensive manner.

Special attention will be given to Prescription Writing, Urinary and Salivary Analysis, and Toxicology, and to the nature, origin, physical, and chemical properties of the various remedies official in the United States Pharmacopœia.

Dr. Winslow Anderson, Assistant to the Chair of Materia Medica and Medical Chemistry, will conduct the Laboratory investigations, including qualitative analysis and recitations, at least two hours each week during the term.

The first course students will have practical instruction in the Chemical Laboratory three hours each week.

### ANATOMY.

Professor W. B. Lewitt's lectures on anatomy are illustrated fully by the cadaver, and by both wet and dry preparations, models, manikins, and drawings, and include a course on general, special, and topographical anatomy, thus preparing the student for active surgical practice, as well as giving him a thorough knowledge of the relation of organs. Before each lecture a short examination is held on the subject of the preceding lecture.

## DENTAL PATHOLOGY AND THERAPEUTICS.

The lectures delivered by the incumbent of this chair will embrace a full and comprehensive course on the following topics:

1. GENERAL PATHOLOGY.—In which will be discussed those general aspects of disease with which it is necessary to be acquainted in order to be able to understand the nature of any departure from health; causes of disease, symptoms, diagnosis, prognosis, temperaments, pathology of anæsthetics, irritation, determination, congestion, inflammation and its terminations; effusion, suppuration, ulceration, gangrene, sloughing, morbid growths, etc.

2. SPECIAL PATHOLOGY.—In which a critical examination will be made into the special causes of dental decay; dental hygiene and prophylaxis; disease of the enamel—of the dentine; diseases of the dentinal pulp—together with the causes of alveolar abscess—its stages and results; exostosis of the roots and alveoli; necrosis and exfoliation; disease of the antrum; tumors, benign and malignant; diseases of the mucous membrane.

Neuralgia and other nervous affections will receive such attention as their importance may demand, and, besides, there will be presented such other special diseases as may in any degree be of interest to the Dental Practitioner, such as scurvy, scrofula, rachitis, and other diseases of the bones.

3. GENERAL PRINCIPLES OF THERAPEUTICS.—Under which head the general application of medicines will be noticed—their actions, constitutional and topical.

4. SPECIAL THERAPEUTICS.—In connection with Dental Materia Medica, as incidentally related thereto.

## THE DENTAL LABORATORY.

The Dental Laboratory will be in charge of the Superintendent of Infirmary, who will assign patients to students, and, with the Demonstrators of Mechanical Dentistry, will give practical instruction in preparing the mouth for the insertion of artificial teeth, taking impressions, selecting and arranging teeth, and the construction of artificial dentures on bases of vulcanite, celluloid, silver, gold, etc.; also, in alloying, refining, and preparing the metals for use. Special attention will be given to continuous gum work. On account of the length of the term, the opportunities for practice in correcting irregularities of the teeth will be unsurpassed, and will receive their share of attention.

## THE DENTAL INFIRMARY.

The Operating Department will be under the immediate supervision of the Superintendent of Infirmary and the Demonstrators of Operative Dentistry.

The rooms will be open during the forenoon of Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, and during the afternoon of each day except Saturday until four o'clock, when all practical matters pertaining to Operative Dentistry will be fully dealt with by the Demonstrators, one of whom will always be present. Beginning with the close of last term the infirmary will be open throughout the entire year, thus affording a practical course for first and second year students unsurpassed by any similar institution. As there is always an excess of clinical material on hand, and there are six hundred and forty-eight hours per term (including three hours each Wednesday afternoon) devoted to practical consideration of diseases of the teeth, and the adjacent parts, it is not difficult to estimate the advantages the students have in this department.

### PRACTICAL ANATOMY.

The dissecting-room of the University is spacious, well ventilated, well lighted from above, and provided with every convenience. It is open throughout the year under the superintendence of the Professor of Anatomy and Demonstrator of Anatomy. A full supply of material is always procurable at small cost, and is thoroughly preserved from decomposition. When dissections are conducted in a diligent manner, the student is furnished by the Demonstrator with certificates stating the amount and part dissected. The Dissecting Ticket (\$10) is good for the whole year, from January first to December thirty-first.

### CLINICAL INSTRUCTION.

During the course, Wednesday afternoons will be devoted to clinical lectures and operations by the Professors and Clinical Instructors.

### HOSPITALS.

All students in Dentistry will have all the facilities and opportunities enjoyed by the medical students in hospital practice and observation. They will have the freedom, as above represented, of the City and County Hospital and the City Receiving Hospital.

Medical and Surgical clinical lectures are given by the Professors of the Medical Department of the City and County Hospital, Tuesdays, Thursdays, and Saturdays, from 9 to 11 A. M. Attendance upon which, though not a requirement, is recommended on account of the unsurpassed facilities for study of anæsthetic methods.

For further particulars on this subject, see Medical Department Announcement.

### LIBRARY AND MUSEUM.

A nucleus has been formed from which it is hoped a large library and museum will grow. All members and friends of the profession are invited to contribute books, pamphlets and journals, charts, anatomical, physiological and pathological specimens, casts of deformities and irregularities of the teeth and associate parts, or anything that will be useful or instructive.

These contributions will be placed in the library and museum, and marked with the name of the donor, if desired.

L. L. DUNBAR, Dean of the Faculty,  
500 Sutter Street, San Francisco.

OFFICE HOURS: 7 to 8 P. M. only.

N. B.—BOARDING. The expense of living in the city of San Francisco is very reasonable. Good board, with room rent, may now be procured at the low rate of \$5 per week, at a convenient distance from the College building.

There is a free Public Library in San Francisco, of which students may have full benefit.

# STUDENTS OF THE SESSION OF 1889.

## SENIOR CLASS.

NAME.	RESIDENCE.	PRECEPTOR.
Bray, George Frederick I.....	San Francisco, Cal.....	Louis Bush.
Gunzburger, Benjamin Mitchell..	San Francisco, Cal.....	Henry Craigie.
Gambitz, Milton Ross.....	San Francisco, Cal.....	G. B. Lemon, M.D.
Lesher, William Francis*.....	San Francisco, Cal.....	C. L. Goddard, D.D.S.
Meyér, William Alexander.....	San Francisco, Cal.....	C. L. Goddard, D.D.S.
Mobley, Warren Guice.....	North Bloomfield, Cal...	Col. of Dentistry, U.C.
Nash, Dorr.....	Nicolaus, Cal.....	J. Schneider, D.D.S.
Powell, Andrew J.....	Haywards, Cal.....	F. J. Saxe, D.D.S.
Pratt, Edward William.....	San Francisco, Cal.....	Chas. Boxton, D.D.S.
Sutliff, Frederick Courtland.....	Sacramento, Cal.....	W. Wood.
Shoaff, Walter Randall.....	San Francisco, Cal.....	B. W. Haines, M.D., D.D.S.
Wallace, Arthur Henry.....	Stockton, Cal.....	W. G. Wallace, D.D.S.

## JUNIOR CLASS.

NAME.	RESIDENCE.	PRECEPTOR.
Allbright, Frederick Harrison...	Red Bluff, Cal.....	J. H. Epperson.
Backman, Gotthard Sigismund...	Norrköping, Sweden.....	R. F. Ralls, D.D.S.
Bertaud, Eugene Hippolyte.....	San Francisco, Cal....	W. G. Sylvester, D.D.S.
Brown, Calvin Daniel.....	San José, Cal.....	A. O. Hooker.
Burfeind, Wm. Martin Herman...	San Francisco, Cal.....	C. W. Decker.
Burleson, Frank Drake.....	Woodland, Cal.....	J. D. Hodgen, D.D.S.
Chapman, Chester Warren.....	Nevada, Cal.....	N. E. Chapman.
Erhardt, Paul Charles.....	Santa Clara, Cal.....	W. B. Kingsbury.
Farrington, Judson Watts.....	Vallejo, Cal.....	G. L. Voorhees.
Garrison, John Albert.....	Forest Hill, Cal.....	Col. of Dentistry, U.C.
Grossman, Mose Edmund.....	San Francisco, Cal.....	Rhein & Wilbert.
Hatch, Harry Lewis.....	San Francisco, Cal.....	J. H. Hatch, D.D.S.
Heider, William T.....	Oakland, Cal.....	R. H. Cool, D.D.S.
Herrick, Charles Alexis.....	San Francisco, Cal.....	John S. Porter.
Jacobs, Saul Robert.....	San Francisco, Cal.....	B. R. Jacobs.
Litton, Charles Ashby.....	San Francisco, Cal....	Col. of Dentistry, U.C.
Lovegrove, Walter Romain.....	San Francisco, Cal.....	H. F. Baynes, D.D.S.
Martin, George.....	Oakland, Cal.....	John S. Porter.
McCargar, Richard.....	Chico, Cal.....	P. McCargar, D.D.S.
Nye, William Everette.....	San José, Cal.....	F. L. Argal.
Redmond, John Mathew.....	Santa Rosa, Cal.....	F. M. Caldwell.
Rulison, David Warren.....	Reno, Nevada.....	M. A. Greenlaw.
Shaw, Harry Howard.....	San Francisco, Cal.....	C. E. Case, D.D.S.
Sharp, William Fuller.....	San Francisco, Cal.....	L. L. Dunbar, D.D.S.
Sylvester, Albert John.....	San Francisco, Cal.....	Sylvester & Sublett.
Van Orden, George Newins.....	Oroville, Cal.....	L. Van Orden, M.D.
Weyer, Adolphus G.....	Modesto, Cal.....	T. W. Drallard.

\* Died May 7, 1889.



# FRESHMAN CLASS.

NAME.	RESIDENCE.	PRECEPTOR.
Armstrong, Josephine Wright	San Francisco, Cal.	Col. of Dentistry, U.C.
Blodgett, John Millard	Millville, Cal.	A. D. Gleaves, D.D.S.
Boyd, Samuel Alexander	San Francisco, Cal.	Col. of Dentistry, U.C.
Couret, Raoul Maximillian	Bronces, Sonora, Mexico.	H. L. Couret, D.D.S.
Dennis, Cecil Chalmers	San Francisco, Cal.	Col. of Dentistry, U.C.
Elliott, D. Carter	Holly, Michigan	Col. of Dentistry, U.C.
Frear, Philip Foster	Oakland, Cal.	Col. of Dentistry, U.C.
Hyde, Alfred Thomas	Spanish Ranch, Cal.	Col. of Dentistry, U.C.
Hyde, Charles George	Spanish Ranch, Cal.	Col. of Dentistry, U.C.
Löckwood, Alfred Tennyson	Martinez, Cal.	Col. of Dentistry, U.C.
Meek, Charles Avan	Grass Valley, Cal.	Col. of Dentistry, U.C.
McQuitty, William Andrew	San Francisco, Cal.	Col. of Dentistry, U.C.

Seniors	12
Juniors	27
Freshmen	12
Total	51

## COMMENCEMENT, 1889.

The eighth commencement exercises of the College of Dentistry of the University of California were held at Odd Fellows' Hall, San Francisco, California, Wednesday, November 13th, at eight o'clock P. M.

### ORDER OF EXERCISES.

OVERTURE—"MERRY WIVES OF WINDSOR"— <i>Nicolai</i>	.....
.....	SECOND REGIMENT ORCHESTRA.
PRAYER	..... REV. C. S. MASON.
FLUTE SOLO—"TRAVIATA"— <i>Verdi</i> .	.....
ADDRESS ON BEHALF OF THE FACULTY	.....
.....	J. L. ASAY, M.D., San José, Cal.
FANTASIE, for French Horn— <i>Strauss</i> .	.....
CONFERRING DEGREES OF DOCTOR OF DENTAL SURGERY	.....
.....	HORACE DAVIS, A.B., President of the University.
SERENADE, for Horn and Flute— <i>Titl</i> .	.....
BENEDICTION	..... REV. C. S. MASON.



## GRADUATES.

### 1882.

Thomas Watson Hall .....	Oakland, California.
Charles Wesley Hibbard .....	San Francisco, California.
Thomas Morffew .....	San Francisco, California.
Henry John Plomteaux .....	Oakland, California.
Charles Wesley Richards .....	San Francisco, California.
William Henry Stanley .....	San Francisco, California.
Gustave William Sichel, M.D. ....	San Francisco, California.
August Van Crombrughe .....	San Francisco, California.

### 1883.

John Nelson Blood .....	Greenville, California.
Charles Boxton .....	San Francisco, California.
Maria Angelina Burch* .....	Pescadero, California.
Edward Overton Cochrane .....	San Francisco, California.
Russell Hopkins Cool .....	Oakland, California.
Milton Francis Gabbs .....	Sutter Creek, California.
William Edmund Price .....	San Francisco, California.

### 1884.

George Washington Cool .....	Oakland, California.
John Michael Dunn .....	Oakland, California.
Archibald Duncan Gleaves .....	Anderson, California.
Robert Nicol .....	Archiestown, Scotland.
Gustave Carl Rietzke .....	Kuhn, Germany.
William Henry Simmons .....	Oakland, California.
Elmer Joseph Weldon .....	Vacaville, California.

### 1885.

Henry Sylvester Bettis .....	San Francisco, California.
George Botsford .....	Campbellton, Canada.
Daniel Barratt Cate .....	Quincy, California.
Nathaniel Thomas Coulson .....	Cornwall, England.
George Ihmer Drucker .....	San Francisco, California.
William Ellis Fitzpatrick .....	Empire City, Nevada.
Walter Robert Henderson .....	Stockton, California.
John Adams Douglas Hutton .....	San José, California.
Franklin Pancoast .....	San Francisco, California.
Charles Theodore Rodolph .....	Oakland, California.
Frederick Judson Saxe, A.M. ....	Santa Clara, California.
Joseph Schneider .....	Vallejo, California.
Henry Sylvester, Jr. ....	San Francisco, California.

\* Deceased.

1886.

Harry Putnam Carlton .....	Oakland, California.
Hector Ludovic Couret .....	Sonora, Mexico.
Martin Joseph Dunn .....	Berkeley, California.
Nicholas Anton Givovich .....	Ragusa, Austria.
John Gow Humphrey .....	San Francisco, California.
Thomas Harvey Morris .....	Oakland, California.
William Cormack Reith .....	Sacramento, California.
Joseph Emil Sand .....	San Francisco, California.
Benjamin Franklin Simmons .....	Oakland, California.
William Oltman Stuttmeister .....	Oakland, California.
William Grover Sylvester .....	San Francisco, California.

1887.

Edward Livingston Davis .....	San José, California.
Joseph Dupuy Hodgen .....	Woodland, California.
Harold McKean Jones .....	Cloverdale, California.
Howard Maldonado .....	San Francisco, California.
Robert Eugene Payne .....	San Francisco, California.
Charles Edgar Post .....	San Francisco, California.
Arthur Theodore Regensburger .....	San Francisco, California.
George Frederick Rodden .....	San Rafael, California.
George Walter Rodolph .....	Oakland, California.
Jennie Martha Simpson .....	Sacramento, California.
Granville Eugene Shuey .....	Danville, California.
Otto Frank Westfall .....	San Francisco, California.

1888.

Ira Hart Chapman .....	San Francisco, California.
Samuel Alston Hackett .....	Oakland, California.
Frank Lewis Hultberg .....	San Francisco, California.
Philander McCargar .....	Virginia City, Nevada.
Joseph Pfister .....	Pinole, California.
William George Shankey .....	San Francisco, California.
Edward Nelson Short .....	San Francisco, California.
Charles Sawtelle Weston .....	Oakland, California.

1889.

Milton Ross Gambitz .....	San Francisco, California.
Benjamin Mitchell Gunzberger .....	San Francisco, California.
William Alexander Meyer .....	San Francisco, California.
Warren Guice Mobley .....	North Bloomfield, California.
Dorr Nash .....	Nicolaus, California.
Andrew John Powell .....	Haywards, California.
Edward William Pratt .....	San Francisco, California.
Frederick Courtland Sutliff .....	Sacramento, California.
Arthur Henry Wallace .....	Stockton, California.

# UNIVERSITY OF CALIFORNIA.

---

## ACADEMIC SENATE.

NOTE.—The Faculties of the University, together with the Instructors, constitute by law the Academic Senate.

The names, excepting those of the President and Secretary, are arranged in the order of original accession to membership in the Academic Senate.

---

HORACE DAVIS, A.B., PRESIDENT ..... Berkeley.  
*President of the University.*

JOHN HARMON C. BONTÉ, SECRETARY...Dwight Way, near Choate Street,  
Berkeley.  
*Professor of Legal Ethics.*

---

JOHN LE CONTE, M.D., LL.D.\*.....Corner Mark Street and Dwight Way,  
Berkeley.  
*Professor of Physics.*

MARTIN KELLOGG, A.M.\*....Bushnell Street, near College Way, Berkeley.  
*Professor of the Latin Language and Literature.*

JOSEPH LE CONTE, M.D., LL.D.....Bancroft Way, near Piedmont Avenue,  
Berkeley.  
*Professor of Geology and Natural History.*

FRANK SOULÉ, GRAD. U. S. MILITARY ACADEMY, WEST POINT.....960 Oak  
Street, Oakland.  
*Professor of Civil Engineering and Astronomy.*

STEPHEN JOHNSON FIELD, LL.D.. Washington, D. C., and San Francisco.  
*Honorary Professor of Law.*

WILLARD BRADLEY RISING, M.E., PH.D.....Corner Chapel Street  
and Allston Way, Berkeley.  
*Professor of Chemistry.*

GEORGE WOODBURY BUNNELL, A.M...1955 Telegraph Avenue, Oakland.  
*Professor of the Greek Language and Literature.*

GEORGE DAVIDSON, PH.D., D.Sc...43½ Appraisers' Building, San Francisco.  
*Honorary Professor of Geodesy and Astronomy.*

RICHARD BEVERLY COLE, A.M., M.D., M.R.C.S., ENG.....218 Post Street,  
San Francisco.  
*Professor of Obstetrics and Gynecology.*

MELANCTHON WILLIAMS FISH, M.D.....461 East Fourteenth Street,  
Oakland.  
*Emeritus Professor of Physiology and Microscopy.*

---

\*Absent on leave.

- GEORGE CUNNINGHAM EDWARDS, PH.B...1568 Webster Street, Oakland.  
*Associate Professor of Mathematics.*
- ALBIN PUTZKER...Corner Humboldt Avenue and Parker Street, Berkeley.  
*Associate Professor of the German Language and Literature.*
- EUGENE WOLDEMARR HILGARD, PH.D., LL.D.....Bancroft Way, near  
Audubon Street, Berkeley.  
*Professor of Agriculture, Agricultural Chemistry, General and Economic Botany.*
- SAMUEL BENEDICT CHRISTY, PH.B....Piedmont Avenue, near Bancroft  
Way, Berkeley.  
*Associate Professor of Mining and Metallurgy.*
- FREDERICK SLATE, B.S.\*....Audubon Street, near Bancroft Way, Berkeley.  
*Associate Professor of Physics and Mechanics.*
- FREDERICK GODFRAY HESSE.....Corner Broadway and Telegraph  
Avenue, Oakland.  
*Professor of Mechanical Engineering.*
- BERNARD MOSES, PH.D.....Audubon Street, near University Grounds,  
Berkeley.  
*Professor of History and Political Economy.*
- ABRAHAM WENDELL JACKSON, JR., PH.B....Fourth University Cottage,  
Berkeley.  
*Associate Professor of Mineralogy, Petrography, and Economic Geology.*
- JOHN BERNARD CLARKE, PH.B....318 East Seventeenth Street, Oakland.  
*Associate Professor of Mathematics.*
- WILLIAM CAREY JONES, A.M...Bancroft Way, near Dana Street, Berkeley.  
*Associate Professor of United States History.*
- WILLIAM THEODORE WENZELL, M.D., PHARM. M.....153 Grove Street,  
San Francisco.  
*Professor of Chemistry in the College of Pharmacy.*
- ROBERT ARMISTEAD McLEAN, M.D...603 Merchant Street, San Francisco.  
*Professor of Clinical and Operative Surgery, and Dean of the Medical Faculty.*
- GEORGE AUGUSTUS SHURTLEFF, M.D..... Stockton.  
*Emeritus Professor of Mental Diseases and Medical Jurisprudence.*
- WILLIAM FLETCHER McNUTT, M.D., M.R.C.S., and S.R.C.P., EDIN.  
405 Montgomery Street, San Francisco.  
*Professor of the Principles and Practice of Medicine.*
- SERRANNO CLINTON HASTINGS, LL.D...636 Clay Street, San Francisco.  
*Professor of Comparative Jurisprudence.*
- EDMOND O'NEILL, PH.B.....1403 Chestnut Street, Oakland.  
*Instructor in Chemistry.*
- EDWARD JAMES WICKSON, A.M..Corner of Bancroft Way and Audubon  
Street, Berkeley.  
*Lecturer on Practical Agriculture and Assistant Superintendent of the Experimental  
Grounds.*
- HANS HERMAN BEHR, M.D.....509 Kearny Street, San Francisco.  
*Professor of Botany in the College of Pharmacy.*

\* In charge of the Department of Physics in the absence of Professor Le Conte.



- EDWARD WHEELOCK RUNYON, PH.G..53 Stevenson Street, San Francisco.  
*Professor of the Theory and Practice of Pharmacy, and Dean of the  
 Pharmaceutical Faculty.*
- WILLIAM MARTIN SEARBY.....859 Market Street, San Francisco.  
*Professor of Materia Medica in the College of Pharmacy.*
- WILLIAM HENRY MAYS, M.D.....329 Geary Street, San Francisco.  
*Professor of Mental Diseases and Medical Jurisprudence.*
- WILLIAM EDWIN TAYLOR, M.D.....215 Geary Street, San Francisco.  
*Professor of the Principles and Practice of Surgery.*
- CLARK LA MOTTE GODDARD, A.M., D.D.S..131 Post Street, San Francisco.  
*Professor of Orthodontia and Dental Metallurgy.*
- ABRAHAM LEWIS LENGFELD, M.D....954 Market Street, San Francisco.  
*Professor of Materia Medica and Medical Chemistry.*
- IRVING STRINGHAM, PH.D.....Corner of Piedmont Avenue and Bancroft  
 Way, Berkeley.  
*Professor of Mathematics, Dean of the Faculty of Letters and of the Faculties of  
 Science.*
- EDWARD LEE GREENE, PH.B..University Avenue, between Sherman and  
 Grant Streets, Berkeley.  
*Lecturer on Botany.*
- CORNELIUS BEACH BRADLEY, A.M.....668 Eighteenth Street, Oakland.  
*Associate Professor of the English Language and Literature.*
- WILLIAM BREAKEY LEWITT, M.D....605 Laguna Street, San Francisco.  
*Professor of Anatomy.*
- BENJAMIN RALPH SWAN, M.D.....310 Stockton Street, San Francisco.  
*Professor of the Diseases of Children.*
- GEORGE HOLMES HOWISON, LL.D...Corner Piedmont Avenue and Chan-  
 ning Way, Berkeley.  
*Mills Professor of Intellectual and Moral Philosophy and Civil Polity.*
- LUIS LANE DUNBAR, D.D.S. ....500 Sutter Street, San Francisco.  
*Professor of Operative Dentistry and Dental Histology, and Dean of the Dental  
 Faculty.*
- MAURICE JAMES SULLIVAN, D.D.S. ....30 Post Street, San Francisco.  
*Professor of Dental Pathology and Therapeutics.*
- WILLIAM GALT RAYMOND, C.E...Durant Avenue, near Tremont Street,  
 Berkeley.  
*Instructor in Civil Engineering.*
- CHARLES WILLIAM SLACK, PH.B., LL.B.....212 Sansome Street, San  
 Francisco.  
*Assistant Professor of Municipal Law.*
- HERMANN KOWER, C.E. ....906 Broadway, Oakland.  
*Instructor in Instrumental Drawing.*
- EDWARD SINGLETON HOLDEN, LL.D.....Mount Hamilton.  
*Director of the Lick Observatory, and Astronomer.*
- ROBERT PAUL HASTINGS, A.B., LL.B... 120 Phelan Building, 808 Market  
 Street, San Francisco.  
*Dean of the Faculty of Law.*



- WASHINGTON AYER, M.D.....410 Kearny Street, San Francisco.  
*Professor of Hygiene.*
- GEORGE F. E. HARRISON, FIRST LIEUT. SECOND U. S. ARTILLERY.....2507  
Sacramento Street, San Francisco.  
*Professor of Military Science and Tactics.*
- GEORGE HERMAN POWERS, A.M., M.D...215 Geary Street, San Francisco.  
*Professor of Ophthalmology and Otology.*
- JOACHIM HENRY SENGEL, PH.D.....2122 Steiner Street, San Francisco.  
*Instructor in German and Greek.*
- WILLIAM WATT KERR, A.M., M.B., C.M...522 Sutter Street, San Francisco.  
*Professor of Clinical Medicine.*
- FÉLICIEN VICTOR PAGET, BACHELIER ÈS LETTRES, BACHELIER ÈS SCIENCES.  
813 Hyde Street, San Francisco.  
*Assistant Professor of the French and Spanish Languages.*
- ARNOLD ABRAHAM D'ANCONA, A.B., M.D...405 Montgomery Street, San  
Francisco.  
*Professor of Physiology.*
- THOMAS RUTHERFORD BACON, A.B., B.D...Corner Oxford and Addison  
Streets, Berkeley.  
*Instructor in History.*
- ELISHA WILLIAMS MCKINSTRY, LL.D. ...4 Sutter Street, San Francisco.  
*Professor of Municipal Law.*
- WILLIAM DALLAM ARMES, PH.B...Dwight Way, near Bowditch Street,  
Berkeley.  
*Instructor in English.*
- ALBERT ANDREW HOWARD, PH.D. ....Chapel Street, Berkeley.  
*Ad interim Professor of the Latin Language and Literature.*
- DOUGLASS WILLIAM MONTGOMERY, M.D.....600 Sutter Street, San  
Francisco.  
*Professor of Pathology and Microscopy, and Curator of the Medical Department.*
- GEORGE MOREY RICHARDSON, PH.D...Corner Durant Avenue and Dana  
Street, Berkeley.  
*Instructor in Latin.*
- FRANK GAYLORD HUBBARD, PH.D...Dwight Way, near Bowditch Street,  
Berkeley.  
*Instructor in English.*
- CHARLES MILLS GAYLEY, A.B...Corner Dwight Way and College Avenue,  
Berkeley.  
*Professor of the English Language and Literature.*
- CARLO VENEZIANI, PH.D.....1377 San Pablo Avenue, Oakland.  
*Temporary Instructor in Mathematics.*
- ROBERT FRANKLIN PENNELL, A.B.....214 Castro Street, San Francisco.  
*Temporarily in charge of the Department of Greek.*

# UNIVERSITY OF CALIFORNIA.

---

## UNDERGRADUATE DEPARTMENTS AT BERKELEY.

### INCLUDING

- |  |                                  |
|--|----------------------------------|
| 1. COLLEGE OF LETTERS.                       | 2. COLLEGE OF AGRICULTURE.       |
| (a) CLASSICAL COURSE.                        | 3. COLLEGE OF MECHANICS.         |
| (b) LITERARY COURSE.                         | 4. COLLEGE OF MINING.            |
| (c) COURSE IN LETTERS AND POLITICAL SCIENCE. | 5. COLLEGE OF CIVIL ENGINEERING. |
| 6. COLLEGE OF CHEMISTRY.                     |                                  |
- 

### ACADEMIC STAFF.

- HORACE DAVIS, A.B., President of the University.
- GEORGE WOODBURY BUNNELL, A.M., Professor of the Greek Language and Literature.
- SAMUEL B. CHRISTY, Ph.B., Associate Professor of Mining and Metallurgy.
- CHARLES M. GAYLEY, A.B., Professor of the English Language and Literature.
- GEORGE DAVIDSON, Ph.D., Honorary Professor of Geodesy and Astronomy.
- STEPHEN J. FIELD, LL.D., Honorary Professor of Law.
- GEORGE F. E. HARRISON (First Lieutenant Second U. S. Artillery), Professor of Military Science and Tactics.
- FREDERICK G. HESSE, Professor of Mechanical Engineering.
- EUGENE W. HILGARD, Ph.D., LL.D., Professor of Agriculture, Agricultural Chemistry, General and Economic Botany.
- GEORGE H. HOWISON, LL.D., Mills Professor of Intellectual and Moral Philosophy and Civil Polity.
- A. WENDELL JACKSON, JR., Ph.B., Associate Professor of Mineralogy, Petrography, and Economic Geology.
- MARTIN KELLOGG, A.M., Professor of the Latin Language and Literature.
- JOHN LE CONTE, M.D., LL.D., Professor of Physics.
- JOSEPH LE CONTE, M.D., LL.D., Professor of Geology and Natural History.
- BERNARD MOSES, Ph.D., Professor of History and Political Economy.
- ALBIN PUTZKER, Associate Professor of German.
- WILLARD B. RISING, M.E., Ph.D., Professor of Chemistry.
- FRANK SOULÉ (U.S. Military Academy), Professor of Civil Engineering and Astronomy.
- IRVING STRINGHAM, Ph.D., Professor of Mathematics, Dean of the College of Letters and the Colleges of Science.
- C. B. BRADLEY, A.M., Associate Professor of the English Language and Literature.
- JOHN B. CLARKE, Ph.B., Associate Professor of Mathematics.
- GEORGE C. EDWARDS, Ph.B., Associate Professor of Mathematics.
- EDWARD LEE GREENE, Lecturer on Botany.

WILLIAM CAREY JONES, A.M., Associate Professor of United States History.

FREDERICK SLATE, Associate Professor of Physics and Mechanics.

G. M. RICHARDSON, PH.D., Instructor in Latin and Greek.

HERMANN KOWER, C.E., Instructor in Instrumental Drawing.

THOMAS R. BACON, A.B., Instructor in History.

EDMOND C. O'NEILL, PH.B., Instructor in Chemistry.

F. V. PAGET, B.S., B.L., Instructor in the French and Spanish Languages.

WILLIAM G. RAYMOND, C.E., Instructor in Civil Engineering.

J. HENRY SENDER, A.B., Instructor in German.

W. D. ARMES, PH.B., Instructor in English.

E. J. WICKSON, A.M., Lecturer on Practical Agriculture, and Assistant Superintendent of the Experimental Grounds.

---

#### ASSISTANTS AND OTHER OFFICERS.

MYER E. JAFFA, PH.B., Assistant in the Agricultural Laboratory.

LOUIS PAPARELLI, First Assistant in the Viticultural Laboratory.

GEORGE ELDEN COLBY, PH.B., Second Assistant in the Viticultural Laboratory.

ADOLPH SOMMER, PH.G., Assistant in Chemistry.

JOHN H. GRAY, JR., B.S., Assistant in Chemistry.

E. R. DREW, B.S., Assistant in Physics.

W. J. RAYMOND, B.S., Assistant in Physics.

FRANKLIN BOOTH, Student Assistant in the Metallurgical Laboratory.

JOSEPH A. SLADKY, Superintendent of the Machine Shops.

JOSEPH C. ROWELL, A.B., Librarian.

J. J. RIVERS, Curator of the University Museum.

# UNIVERSITY OF CALIFORNIA.

## MEDICAL DEPARTMENT.

### FACULTY.

- HORACE DAVIS, A.B., President of the University.  
G. A. SHURTLEFF, M.D., Emeritus Professor of Mental Diseases and Medical Jurisprudence.  
M. W. FISH, M.D., Emeritus Professor of Physiology and Microscopy.  
E. BEVERLY COLE, A.M., M.D., M.R.C.S., Eng., Professor of Obstetrics and Gynecology.  
W. P. McNUTT, M.D., M.R.C.P., Edin., Professor of Principles and Practice of Medicine.  
ROBERT A. McLEAN, M.D., Professor of Clinical and Operative Surgery, Dean.  
W. E. TAYLOR, M.D., Professor of Principles and Practice of Surgery.  
A. L. LENGFELD, M.D., Professor of Materia Medica and Medical Chemistry.  
WILLIAM B. LEWITT, M.D., Professor of Anatomy.  
BENJAMIN R. SWAN, M.D., Professor of Diseases of Children.  
WILLIAM H. MAYS, M.D., Professor of Mental Diseases and Medical Jurisprudence.  
WASHINGTON AYER, M.D., Professor of Hygiene.  
GEORGE H. POWERS, A.M., M.D., Professor of Ophthalmology and Otology.  
WILLIAM WATT KERR, A.M., M.B., C.M., Professor of Clinical Medicine.  
ARNOLD A. D'ANCONA, A.B., M.D., Professor of Physiology.  
DOUGLASS W. MONTGOMERY, M.D., Professor of Pathology and Microscopy, Curator.

- JOHN M. WILLIAMSON, M.D., Lecturer on Descriptive Anatomy.  
JOHN H. BARBAT, Ph.C.M.D., Demonstrator of Anatomy.  
WINSLOW ANDERSON, M.D., Assistant to the Chair of Materia Medica and Medical Chemistry.  
JULES SIMON, M.D., Assistant to the Chair of Mental Diseases and Medical Jurisprudence.

### College Dispensary Staff.

- JULES SIMON, M.D., Nervous Diseases.  
H. W. DODGE, M.D., Medicine.  
D. W. MONTGOMERY, M.D., Diseases of the Skin.

The Preliminary Term begins March third.

The Regular Term begins June second.

Graduates of Dental Colleges in good standing are admitted to the second year without examination.

ROBERT A. McLEAN, M.D., Dean.

603 Merchant Street, corner of Montgomery,  
San Francisco, California.



# CALIFORNIA COLLEGE OF PHARMACY,

113 FULTON STREET, SAN FRANCISCO.

---

(DEPARTMENT OF PHARMACY, UNIVERSITY OF CALIFORNIA.)

---

## FACULTY.

HORACE DAVIS, A.B., President of University of California.  
WILLIAM T. WENZELL, M.D., PH.G., PH.M., Professor of Chemistry.  
HERMANN H. BEHR, M.D., Professor of Botany.  
WILLIAM M. SEARBY, Professor of Materia Medica.  
EDWARD W. RUNYON, PH.G., Professor of Pharmacy.

The Eighteenth Annual Course will begin April 7, 1890, and continue to October first of the same year. Lectures will be delivered on Chemistry, Materia Medica, Botany, Theoretical and Practical Pharmacy. Arrangements have been made to provide Laboratory Instruction in Chemical and Pharmaceutical Work, and in every respect efforts will be made to keep pace with the rapid advancement of Pharmaceutical Science.

## REQUIREMENTS FOR ADMISSION.

Every applicant for admission to the regular course for graduation at this College will be required to pass a preliminary examination, or to present a diploma or other satisfactory written evidence that he has passed the first grammar grade, and is entitled to enter a High School of this State, or has attended some academy of a grade equal to that of our High Schools. Those who do not present such certificates will be examined in English reading and composition, writing, geography, and arithmetic.

Candidates will therefore be at the college on Friday, April fourth, at 9 A. M., for the purpose of matriculating, when those who are possessed of satisfactory certificates will be allowed to matriculate without examination, and all others will be examined in the above mentioned branches.

## REQUIREMENTS FOR GRADUATION.

Every person upon whom the diploma of Graduate in Pharmacy shall be conferred must be of good moral character, shall have attained the age of twenty-one years, and attended two full courses in each of the departments of this college, or one course (the Senior) in this, after a course in some other recognized College of Pharmacy. He must have had, inclusive of the time of attendance at this college, four years' experience in a pharmacy where prescriptions are compounded, and must have attended the Senior laboratory course of this college. No special examination will be held for candidates for the degree, but only an examination at the end of the regular course. Students failing to attend less than two thirds of the lectures in each chair will not be allowed to enter the final examinations.



He must present a *thesis* to the Dean on or before the first of September. The thesis must be an original dissertation upon some subject relating to Pharmacy or its collateral branches, or a chemical analysis conducted by himself. It must be written by the candidate himself, in the English language, and on the regular thesis paper furnished by the College so as to admit of being bound uniformly with the others in volumes for preservation.

Candidates must be recommended jointly by the Faculty and Examining Board to the Regents of the University of California, by whom the Degree is conferred (the College of Pharmacy being affiliated with the University).

#### FEES.

Matriculation (paid but once) .....	\$2 50
Botany (for each term).....	12 50
Chemistry (for each term).....	12 50
Pharmacy (for each term).....	12 50
Materia Medica (for each term).....	12 50
Fee for Final Examination, payable but once, and not refunded in case of failure .....	10 00
Certificate of Proficiency .....	2 00
Latin (optional) for the term .....	5 00
Review class for each branch for the term.....	1 50
Laboratory instruction for Juniors for the term .....	5 00
Laboratory instruction for Seniors for the term .....	10 00

#### PHARMACISTS ENTERING MEDICAL COLLEGES.

Graduates in Pharmacy of this College are permitted to present themselves for examination for the Degree of Doctor of Medicine in the Medical Department of the University of California and in the Cooper Medical College, after attending either of these schools two years instead of three, as required of other students. The fees have also been reduced in like proportion to Graduates in Pharmacy. This generous concession is a gratifying evidence of the value of pharmaceutical instruction, and should not be overlooked by young men who design to make the practice of medicine their ultimate object.

Graduates of such Medical Colleges as are recognized by the American Medical Association will be permitted to present themselves for examination for the degree after one year's attendance at this College, provided they have complied with all the other conditions for graduation.

Other students, not intending to pursue pharmacy as their vocation, will be admitted to the lectures, or any one of the courses they may desire to attend, by paying the matriculation fee and that of the chair or chairs of instruction. They may be examined in the special subject or subjects with the students of the Senior Class, and Certificates of Proficiency will be awarded to them on the same conditions as to the regular students. Special students will not, in any case, be eligible for the Degree of Graduate in Pharmacy.

**A Gold Medal, Scientific Apparatus, and a Free Scholarship** will be bestowed in each session. For particulars, see Prospectus.

**A Library and Reading-room** is open daily, and is free to the use of students.

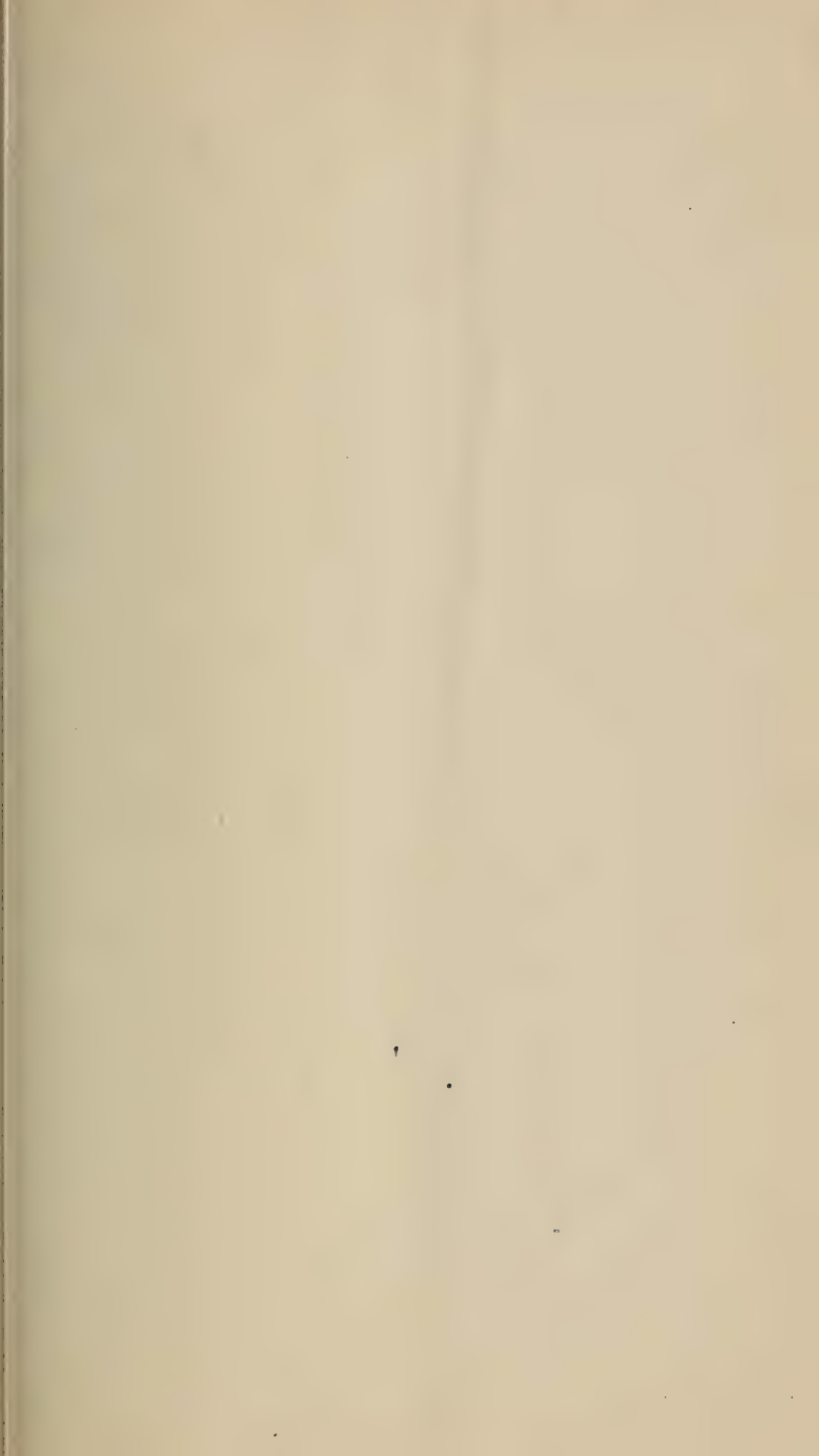
Assistants seeking situations, and employers wanting clerks, should register their names in the College.

*For prospectus, terms, and further information, address,*

EDWARD W. RUNYON, *Dean of the Faculty,*  
53 STEVENSON STREET, SAN FRANCISCO, CAL.

THE LIBRARY OF THE  
FEB 26 1931  
UNIVERSITY OF ILLINOIS.













22  
1

*H. B. Lemmitt, M. D.*  
COLLEGE OF DENTISTRY  
OF THE  
University of California.

THE LIBRARY OF THE  
FEB 26 1931  
UNIVERSITY OF ILLINOIS.

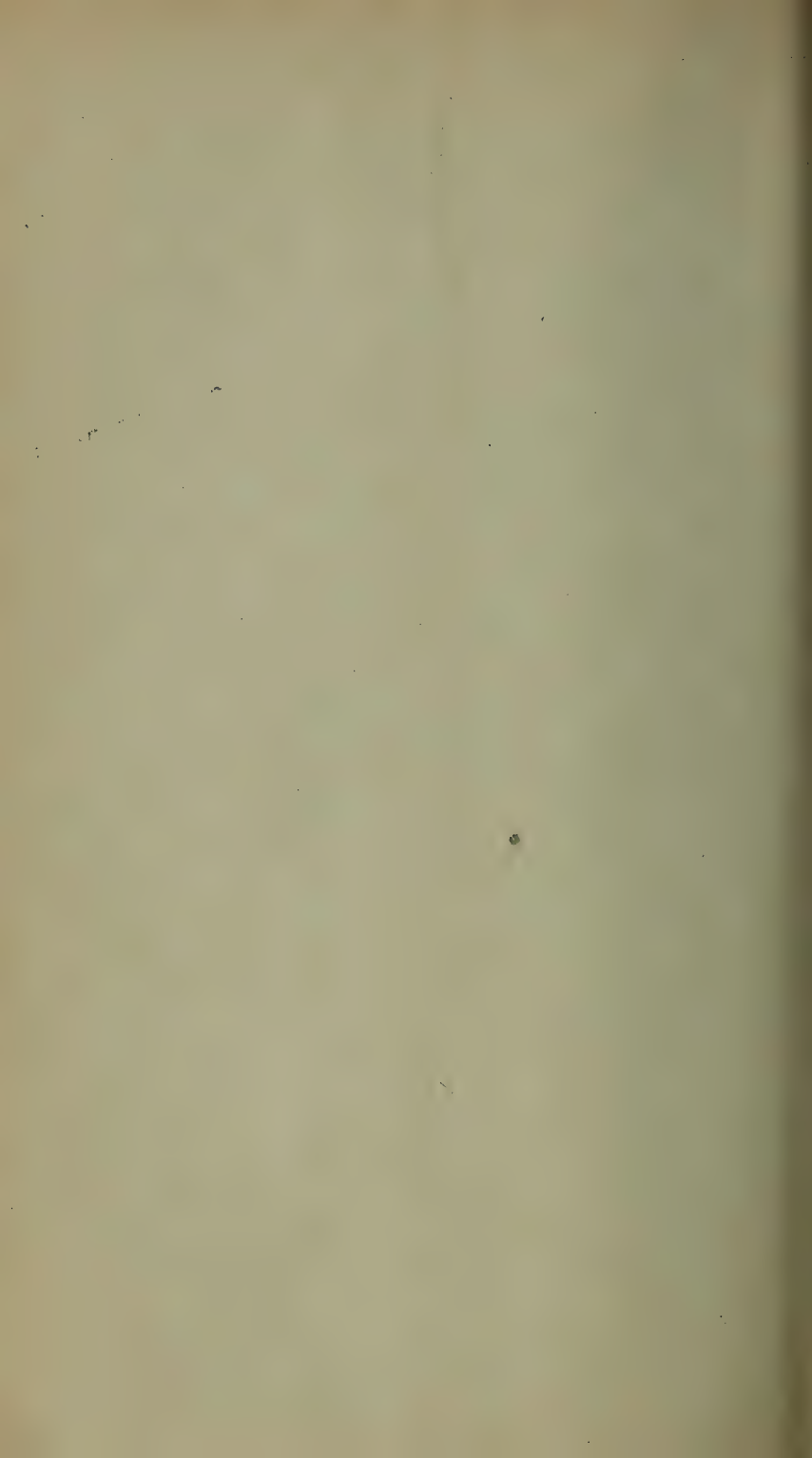


NO. 18 TAYLOR STREET, COR. MARKET.

TENTH SESSION,

Commencing April 6, 1891, and Ending December 31, 1891

SAN FRANCISCO:  
P. M. DIERS & Co., PRINTERS.  
1891.



# ANNOUNCEMENT

OF THE

## COLLEGE OF DENTISTRY

OF THE

University of California,

FOR ITS

TENTH SESSION,

Commencing April 6, 1891, and Ending December 31, 1891

---

*N. B.—Those who wish to receive the Announcement are requested to forward their Names and Addresses to the Dean.*

SAN FRANCISCO:  
P. M. DIERS & CO., PRINTERS.  
1891.

THE LIBRARY OF THE  
FEB 26 1931  
UNIVERSITY OF ILLINOIS.



# CONTENTS.

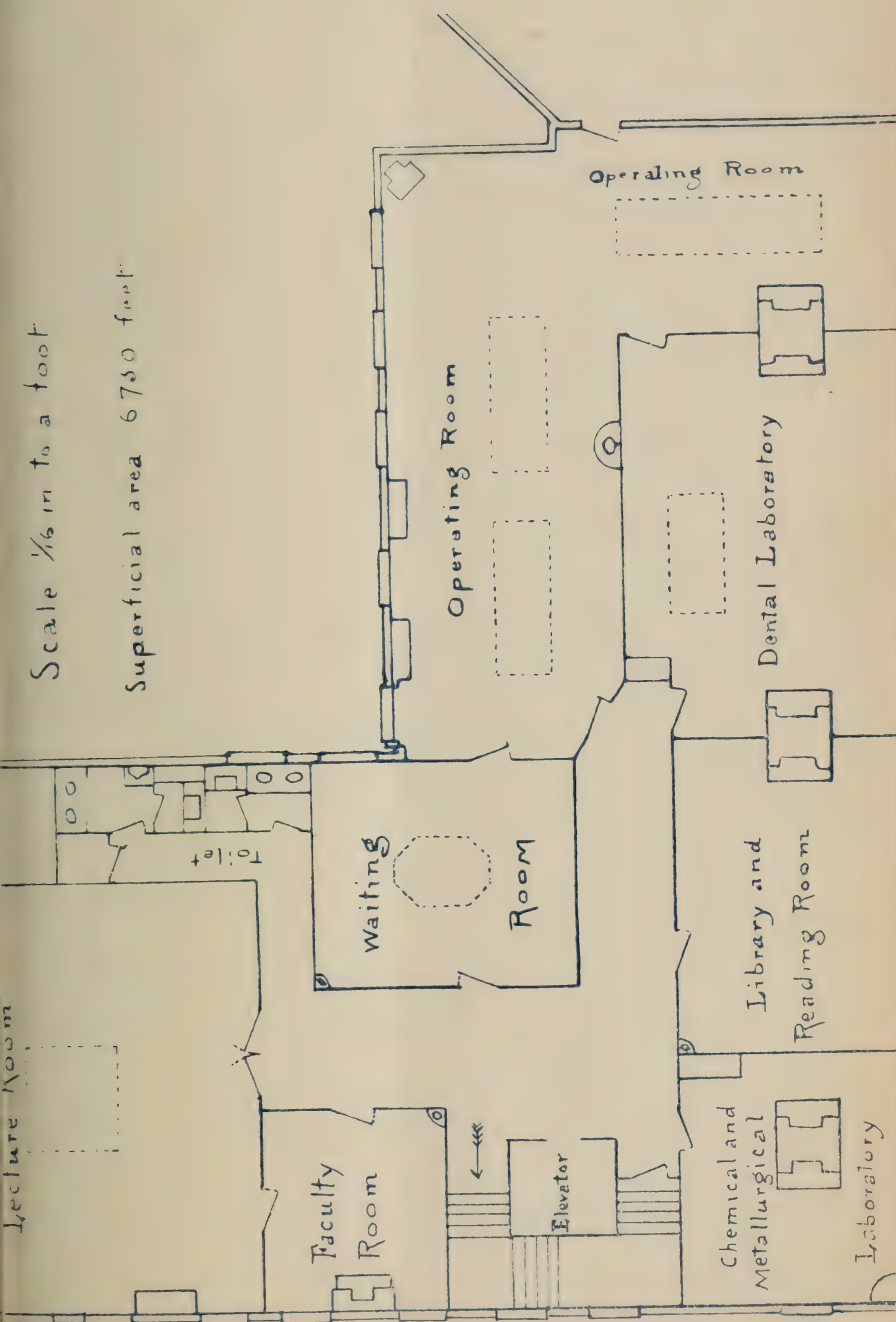
---

	<i>Page</i>
DIRECTORY . . . . .	3
BOARD OF REGENTS . . . . .	4
FACULTY . . . . .	5
ANNOUNCEMENT . . . . .	7
COMMENCEMENT OF TERM . . . . .	9
SCHEDULE OF STUDY . . . . .	9
REQUIREMENTS FOR ADMISSION . . . . .	9
DATE OF PRELIMINARY EXAMINATION . . . . .	10
FRESHMAN AND JUNIOR EXAMINATIONS . . . . .	10
REQUIREMENTS FOR GRADUATION . . . . .	11
FEES . . . . .	11
TEXT-BOOKS . . . . .	12
OUTLINE OF COURSE OF STUDY . . . . .	13
STUDENTS, 1890 . . . . .	19
COMMENCEMENT EXERCISES . . . . .	21
GRADUATES . . . . .	22
ACADEMIC SENATE . . . . .	24
LITERARY AND SCIENTIFIC DEPARTMENT . . . . .	28
MEDICAL DEPARTMENT . . . . .	31
PHARMACEUTICAL DEPARTMENT . . . . .	32

Lecture Room

Scale  $\frac{1}{16}$  in to a foot

Superficial area 6750 feet



PLAN OF ROOMS OF COLLEGE OF DENTISTRY



# OFFICE DIRECTORY.

---

## IN BERKELEY.

- The office of the PRESIDENT is Room No. 2, *North Hall*.  
The office of the RECORDER is Room No. 28, *North Hall*.  
The office of the SECRETARY and office of the BOARD OF REGENTS is in *South Hall*.  
The office of the LAND AGENT is in *South Hall*.  
The office of the MANAGER OF THE UNIVERSITY PRINTING PRESS is No. 27, *North Hall*.
- 

## IN SAN FRANCISCO.

- The office of the REGISTRAR OF THE COLLEGE OF LAW is No. 230 Montgomery Street.  
Lectures in the COLLEGE OF LAW are delivered in the Assembly Room of the Society of Pioneers, No. 808 Montgomery Street.  
The office of the DEAN OF THE MEDICAL FACULTY is No. 603 Merchant Street.  
The COLLEGE OF MEDICINE is situated on Stockton Street, between Chestnut and Francisco, in Toland Hall.  
The Medical and Surgical Clinics of the COLLEGE OF MEDICINE are held at the City and County Hospital, Twenty-second street and Potrero Avenue.  
The Dispensary Clinics of the COLLEGE OF MEDICINE are held in Toland Hall.  
The office of the DEAN OF THE DENTAL FACULTY is No. 500 Sutter Street.  
Lectures in the COLLEGE OF DENTISTRY are delivered in the College building, No. 18 Taylor Street, corner of Market.  
The office of the DEAN OF THE COLLEGE OF PHARMACY is No. 859 Market Street.  
The COLLEGE OF PHARMACY is situated at No. 113 Fulton Street, between Polk Street and Van Ness Avenue.  
The office of the BOARD OF REGENTS is in the Halleck Building, 320 Sansome Street, Room 14.  
The office of the TREASURER OF THE BOARD OF REGENTS is 310 Sansome Street.

# UNIVERSITY OF CALIFORNIA.

## BOARD OF REGENTS.

### EX-OFFICIO REGENTS.

HIS EXCELLENCY HENRY H. MARKHAM.....PASADENA  
*Governor, ex-officio President of the Board.*

HIS HONOR J. B. REDDICK.....SAN ANDREAS  
*Lieutenant-Governor.*

HON. FRANK L. COOMBS.....NAPA  
*Speaker of the Assembly.*

HON. J. W. ANDERSON.....SAN FRANCISCO  
*State Superintendent of Public Instruction.*

HON. CHRISTOPHER GREEN.....SACRAMENTO  
*President of the State Agricultural Society.*

DAVID KERR, Esq.....47-49 Peale Street, SAN FRANCISCO  
*President of the Mechanics' Institute.*

.....  
*President of the University.*

### APPOINTED REGENTS.

NAME.	ADDRESS.	TERM EXPIRES
REV. HORATIO STEBBINS, D.D.,	1609 Larkin St., S. F.	- 1894
LOUIS SLOSS, JR., Esq.,	310 Sansome St., S. F.	- 1894
HON. J. WEST MARTIN,	Union Bank, Oakland,	- 1898
ANDREW S. HALLIDIE, Esq.,	9 Fremont St., S. F.	- 1892
HON. WILLIAM T. WALLACE,	799 Van Ness Ave., S. F.	1902
JOHN LYMAN BEARD, A.M.,	Warm Springs, Alameda County, - - - -	- 1892
HON. TIMOTHY GUY PHELPS,	Custom House, S. F.	- 1896
ISAIAS WILLIAM HELLMAN, Esq.,	Nevada Bank, S. F.	- - 1902
GEORGE THOMAS MARYE, JR., LL.B.,	234 Montgomery St., S.F.	1898
ARTHUR RODGERS, B.S., Ph.B.,	309 Montgomery St., S.F.	1906
GEORGE JENNINGS AINSWORTH, Ph.B.,	Redondo, - - - -	- 1900
DELPHIN MICHAEL DELMAS, A.M., LL.B.,	310 Pine St., S. F.	- - 1900
ALBERT MILLER, Esq.,	532 California St., S. F.	- 1906
COLUMBUS BARTLETT, Esq.,	12 Montgomery St., S. F.	1896
CHARLES FREDERICK CROCKER, Esq.,	Cor. Fourth and Towns- end Sts., S. F. - - -	- 1904
JAMES FRANKLIN HOUGHTON, C.E.,	216 Sansome St., S. F.	- 1904

Regular meetings of the Board of Regents are held thirteen times a year, viz.: on the second Tuesday in each month, and on the Tuesday preceding the last Wednesday in June.



# UNIVERSITY OF CALIFORNIA.

---

## COLLEGE OF DENTISTRY.

---

DONOHUE BUILDING, CORNER MARKET AND TAYLOR STREETS, S. F.

---

### FACULTY.

———, President of the University, and *ex-officio* President of the Faculty.

JOSEPH LeCONTE, M.D., LL.D., Honorary Professor of Biology.

C. L. GODDARD, A.M., D.D.S., Professor of Dental Metallurgy and Orthodontia.

L. L. DUNBAR, D.D.S., Dean, and Professor of Operative Dentistry and Dental Histology.

MAURICE J. SULLIVAN, D.D.S., Professor of Dental Pathology and Therapeutics.

W. E. TAYLOR, M.D., Professor of the Principles and Practice of Surgery.

A. L. LENGFELD, M.D., Professor of Materia Medica and Medical Chemistry.

WILLIAM B. LEWITT, M.D., Professor of Anatomy.

A. A. D'ANCONA, A.B., M.D., Professor of Physiology.

---

W. XAVIER SUDDUTH, M.D., D.D.S. - - MINNEAPOLIS, MINN.  
Special Lecturer on Histology and Pathology.

---

### LECTURERS.

CHARLES BOXTON, D.D.S., Lecturer on Mechanical Dentistry.

HARRY P. CARLTON, D.D.S., Lecturer on Operative Dentistry.

J. L. ASAY, M.D., Lecturer on Oral Surgery.

FELIX LENGFELD, Ph.G., Ph.D., Lecturer on Chemistry.

---

### DEMONSTRATORS AND ASSISTANTS.

CLARK H. RAWSON, D.D.S., Superintendent of Infirmary.

F. J. LANE, D.D.S., Demonstrator of Operative Dentistry.

EDWARD N. SHORT, D.D.S., Demonstrator of Operative Dentistry.

S. A. HACKETT, D.D.S., Demonstrator of Mechanical Dentistry.

EDWARD W. PRATT, D.D.S., Demonstrator of Mechanical Dentistry and Metallurgy.

CHAS. E. POST, D.D.S., Demonstrator of Mechanical Dentistry.

E. O. COCHRANE, D.D.S., Demonstrator of Continuous Gum Work.

J. T. ROWAND, D.D.S., Demonstrator of Crown and Bridge Work.

JOHN H. BARBAT, Ph.G., M.D., Demonstrator of Anatomy.

H. N. WINTON, M.D., Assistant to the Chair of Materia Medica and Medical Chemistry.

CLINICAL INSTRUCTORS.

GEO. H. CHANCE, D.D.S.....	Portland, Oregon.
H. C. DAVIS, L D.S.....	San Francisco.
J. N. BLOOD, D.D.S.....	San Francisco.
W. B. KINGSBURY.....	Santa Clara, California.
H. E. KNOX, D.D.S.....	Oakland.
W. E. PRICE, D.D.S.....	San Francisco.
M. F. GABBS, D.D.S.....	San Francisco.
MAX SICHEL.....	San Francisco.
E. L. TOWNSEND. D.D.S.....	Los Angeles.
L. VAN ORDEN, M.D.....	San Francisco.
WILLIAM WOOD.....	Sacramento.

L. L. DUNBAR, Dean,  
No. 500 Sutter Street, San Francisco.

## ANNOUNCEMENT.

With the opening of the 10th Session, on April 6th, 1891, the College of Dentistry of the University of California severs its relations with the Medical Department, and removes to more commodious quarters, especially prepared for its accommodation, on the seventh floor of the new Donohoe Building, corner of Market and Taylor Streets. The desideratum has long been "room for our increased classes." As long ago as the Session of 1888 was this lack of room manifested in our Clinical Department, and the largely increased attendance of 1890 emphasized the necessity for better facilities for accommodating both the students and the rapidly growing clinical practice of the department.

The work of the past nine years is upon record, and our growing alumni are represented everywhere upon the Pacific Coast, as well as in many places abroad, where they have rapidly taken rank with the foremost in the profession.

The promises of the past have been faithfully kept, and under many disadvantages our course has ever been onward and upward.

With a central location it is expected that our dispensary practice will be more than doubled. The College is provided with a commodious operating room, furnished with thirty improved chairs, with brackets, lockers and stands for each, and abundantly lighted.

The Dental laboratory is on the same floor, immediately adjoining the operating room, access to which will be had in two ways. Everything necessary to a complete demonstration of modern prosthetic methods will be here found. The Chemical and Metallurgical laboratory will be a separate feature, and complete in every detail. Arrangements have been concluded with Prof. W. Xavier Sudduth, M. D., D. D. S., for a complete course in Histology and Pathology, including a full laboratory course and work with the microscope. For this purpose, a class room and Pathological laboratory will be provided.

The lecture room will be commodious and capable of seating two hundred persons. There will also be provided a library and reading room, hat and coat room, toilet rooms for both sexes, a comfortable waiting room or the dispensary, and other rooms for Faculty use. Access to the rooms will be had by elevator and stairway from No. 18 Taylor Street, and exit may be made in this way, and also by means of an elevator and stairway on the Market-street side.

All the lectures of the department will be delivered in the College lecture room, but the work in Practical Anatomy will be performed under the superintendence of the Demonstrator of Anatomy, at the College of Medicine, Stockton Street, between Chestnut and Francisco. The sessions of the College have heretofore been held in the summer months, and the Faculty, recognizing the necessity of uniformity in sessions among the Colleges of the National Association, will gradually change the time of opening its session from February 1st, to September 1st, closing May 31st instead of October 31st, as heretofore. In order to

bring about this change without working hardship to our classes, it was decided to postpone our opening of the 10th Session for two months.

It is expected that with the beginning of the 12th Session in 1893, the change will have been accomplished, and the College will in future hold its sessions co-incident with the other schools forming the National Association. Although a department of the State University, no financial aid or support has ever been given the College of Dentistry by the State; it is therefore obliged to depend upon the fees of students for providing necessary equipment and maintenance. It is fondly hoped, however, that all the professional colleges of the University will, at no distant day, be sufficiently endowed to make them what was originally intended, viz: schools where our growing youth may be thoroughly equipped for some specific life work at a minimum cost.

While the Undergraduate Departments of the University are clustered at Berkeley, the professional colleges are, for convenience of clinical study, conducted wholly in San Francisco.

Our new college building is admirably situated for convenient access, occupying a prominent corner upon the main thoroughfare of the city, contiguous to all lines of cars, direct or by transfer.

The supply of Clinic material has always been abundant, and, even in our former obscure location, more than could be served.

There are seven Professors in the College, besides a corps of able and efficient special lecturers and demonstrators, both operative and mechanical. The Didactic Professors will lecture each week, according to schedule of instruction published in this announcement. Wednesday afternoon of each week will be set apart as heretofore for Clinical Instructors, and two or more are on the schedule for each week during the term.

The Dental laboratory is furnished with benches, lathes, furnaces for melting, forge, rolling mill, continuous gum furnaces, and all other requisites for thorough work. Each student is required to furnish his own instruments and tools, and will be provided with a separate drawer in which they can be securely locked. Those who have instruments and laboratory tools and appliances should bring them; those who have not are advised to defer purchasing till they arrive. Lists of instruments and appliances requisite will be furnished by the Superintendent. During the hours devoted to Operative or Mechanical Dentistry, competent Demonstrators will be present to assist the students in their operations. The Superintendent of the Infirmary will receive and assign patients to students, and will have general supervision of the Infirmary.

*Note.*—This will be the last session at which students, who have had one year of office pupilage, will be admitted to the Junior Class.

Beginning with the Session of 1892, this College will enforce the rule of the National Association of Dental Faculties, as per resolution adopted at their annual meeting, held August 5th, 1889, viz: "That all Colleges of the Association require an attendance upon three full regular courses in separate years before graduation."



# SESSION OF 1891.

*Term commences April 6, 1891, and closes December 31, 1891.*

## SCHEDULE OF STUDY—ORDER OF LECTURES AND CLINICS.

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.
9 A. M. to 10 A. M.	Dental Pathology and Therapeutics, Prof. SULLIVAN	CLINIC, 9 to 12, Operative Dentistry, Dr. CARLTON, Dr. LANE.	Operative Dentistry, Dr. SHORT.  Crown and Bridge Work, Dr. ROWAND.	CLINIC, 9 to 12. Operative Dentistry.  Dr. CARLTON, Dr. LANE.	CLINIC, 9 to 11, Operative Dentistry, Dr. SHORT.
10 A. M. to 11 A. M.	CLINIC.				
11 A. M. to 12 M.	LECTURE, Chemistry, Prof. LENGFELD.		LECTURE, Surgery, Prof. TAYLOR.		LECTURE, Chemistry, Prof. LENGFELD.
12 M. to 1 P. M.	CLINIC, 12 to 4, on Mechanical Dentistry, Dr. HACKETT.	CLINIC, 12 to 3, Mechanical Dentistry Dr. POST.	CLINICAL INSTRUCTORS,  from 2 to 4.	CLINIC 12 to 3, on Mechanical Dentistry, Dr. BOXTON.	CLINIC, 12 to 4, Mechanical Dentistry, Dr. PRATT.
1 P. M. to 2 P. M.					
2 P. M. to 3 P. M.		LECTURE, Physiology, Prof. D'ANCONA			LECTURE, Physiology, Prof. D'ANCONA.
3 P. M. to 4 P. M.					
4 P. M. to 5 P. M.	LECTURE, Anatomy, Prof. LEWITT.	LECTURE, Mechanical Dentistry, Dr. BOXTON.	LECTURE, Dental Metal-	LECTURE, Mechanical Dentistry, Dr. BOXTON.	LECTURE, Anatomy, Prof. LEWITT.
5 P. M. to 6 P. M.	LECTURE, Operative Dentistry, Prof. DUNBAR.		lurgy and Orthodontia, Prof. GODDARD.	LECTURE, Dental Pathology and Therapeutics, Prof. SULLIVAN.	LECTURE, Operative Dentistry, Prof. DUNBAR.
SATURDAY, from 9 A. M. to 12 M., OPERATIVE CLINICS AND HOSPITAL CLINICS, MEDICAL AND SURGICAL.					

## REQUIREMENTS FOR ADMISSION.

Every candidate for admission must be eighteen years of age, must present to the Faculty satisfactory evidence of a good moral character, and must be examined as to his previous education and fitness to appreciate the technical study of Dentistry. The examinations will be chiefly in writing, and will embrace the following subjects, viz:

1. Arithmetic.
2. Geography.
3. English Grammar and Composition.
4. United States History.
5. Natural Philosophy. (Refer to Avery's Natural Philosophy, Peck's Ganot's Introductory Course in Natural Philosophy, or an equivalent.)
6. Elementary Chemistry. (Refer to Meades Chemical Primer, Elliott and Storer's Chemistry, Avery's Chemistry, or an equivalent.)



No matriculation examination will be required of those who have passed the entrance examination of the University of California or of any other recognized College or University, nor of graduates of any recognized academy or high school, nor of those holding teachers' certificates.

In order to secure a release from this examination, the candidate must present his diploma or certificate of examination or graduation.

### PRELIMINARY EXAMINATIONS.

There are two general examinations for entrance held each year on fixed dates; these are conducted by some well-known educator, who is selected for this purpose annually. Students desiring to enter must present themselves on the dates named, as no other examinations for entrance will be given.

The preliminary examination for the Session of 1892 will be held in San Francisco, at the College building, corner Market and Taylor Streets (entrance No. 18 Taylor Street), Monday, March 30th, at 9 o'clock A. M. The second examination will be held in the College lecture room, on Saturday, April 25th, at 9 o'clock A. M. Students desiring to present themselves at these examinations will please call previously at the office of the Dean, 500 Sutter Street.

### THREE YEARS' STUDY.

The course of study and instruction is divided into three years—Freshman, Junior and Senior.

Students who present certificates of one year's study with a preceptor will be admitted to the Junior Class. These certificates must be made out on blanks, which may be obtained from the Dean.

The foregoing rule will be obsolete after the beginning of this Session, in accordance with the following Resolution adopted at the meeting of the National Association of Dental Faculties, August 4, 1890.

*“RESOLVED: That in all Colleges of this Association, students to be graduated at the expiration of two years after admission, must enter the school not later than twenty days after the opening of the regular session following this meeting.”*

### FRESHMAN EXAMINATIONS.

At the end of the Freshman year, students will be examined in Anatomy, Physiology, and Mechanical Dentistry.

### JUNIOR EXAMINATIONS.

At the end of the Junior year, students will be examined in Anatomy, Physiology, Chemistry (or Materia Medica), Histology, and Mechanical Dentistry, and those who are qualified will receive certificates of admission to the Senior Class.

Final examinations may be taken in the following studies—Anatomy, Physiology and Chemistry.

## REQUIREMENTS FOR GRADUATION.

The candidate for the Degree of Doctor of Dental Surgery must have attained the age of twenty-one years, and be of good moral character.

He shall have passed a satisfactory examination, both oral and written.

He shall have studied Dentistry *three* years, including the time spent in attending lectures.

He shall have attended two full courses in the Dental Department of the University of California, or one year in some other reputable Dental College, and the second or last in this College.

\*He shall subscribe to Article II, Section 3, of the Code of Ethics of the American Dental Association.

He *may* write an original thesis upon some subject pertaining to Dentistry or Medicine.

The examinations will be written, oral and practical.

The candidate is required to dissect at least two quarters. He must treat thoroughly some patient, requiring all the usual dental operations, and bring such patient before the Professors of Operative Dentistry and Dental Pathology and Therapeutics. He must also complete at least one artificial case, insert at least one crown or piece of bridge work, and, after completion, bring his patient before the Lecturer on Mechanical Dentistry at least thirty days before the close of the term. He must treat one case of irregularity, and, after the case is completed, bring his patient before the Professor of Orthodontia during the term. He must also prepare a specimen case, to be deposited in the College collection, and present the same to the Lecturer on Mechanical Dentistry before the first of October. The operating and the work on the artificial cases must be done at the College building, and exclusively by the applicant for the degree.

Graduates in Medicine may apply for the Degree of Doctor of Dental Surgery after having had two full years of practical instruction or experience in dentistry, one year of which, including one course of lectures, must be spent in the Dental Department of the University of California.

Beginning with the Session of 1892, graduates in Medicine will be admitted to the second year.

After these requirements have been complied with, upon the recommendation of the Faculty and approval of the Board of Regents, the candidate shall receive the Degree of Doctor of Dental Surgery.

## SCHEDULE OF FEES FOR 1891.

The Matriculation Fee will be (paid once).....	\$5 00
Tuition, first year.....	120 00
Tuition, second year.....	120 00
Tuition, third year, to those who have paid for first and second year.....	Free.

Fee of Demonstrator of Anatomy, each year.....	10 00
Practical Course with the Microscope (for Seniors) .....	10 00
Diploma Fee .....	30 00

### FEES FOR THREE YEARS' COURSE.

(Adopted by the National Association of Dental Faculties, August, 1890.)

Matriculation.....	\$5 00
Lecture Fees (each year).....	100 00
Special Course (Histology).....	10 00
Practical Anatomy.....	10 00
Fee for Final Examination.....	25 00

### TEXT BOOKS.\*

The following books will be needed during the course of study. Students are advised to procure at least the first six at the beginning of the first year, and to add the others before the Senior year :

1. Dental Dictionary, Harris, or Medical Dictionary, Dunglison or Thomas.
2. Anatomy, Gray, Quain or Holden.
3. Physiology, Dalton.
4. Mechanical Dentistry, Richardson or Harris.
5. Operative Dentistry, Taft, Harris, or Fillebrown.
6. Dental Chemistry, Mitchell.
7. Dental Anatomy, Tomes.
8. Orthodontia, Guilford.
9. Dental Metallurgy, Essig.
10. Dental Materia Medica and Therapeutics, Gorgas or Stockens.
11. Surgery, Ashurst or Bryant.
12. Therapeutics, Wood, Biddle or Bartholow.
13. Dental Pathology, Wedl.
14. Chemistry, Lloyd or Barclay.
15. Materia Medica, United States Dispensatory or National Dispensatory.

### ADDITIONAL BOOKS FOR REFERENCE.

Oral Surgery, Garretson.  
 American System of Dentistry, Litch.  
 Histology, Stricker, Frey, Beal, or Wythe.  
 Microscopical Morphology, Heitzman.  
 Pathology, Wagner.  
 Oral Deformities, Kingsley.  
 Nitrous Oxide, Guilford.  
 Mechanical Dentistry, Haskell.  
 Descriptive Anatomy of the Human Teeth, Black.  
 Micro-Organisms of the Human Mouth, Miller.  
 Irregularities, Farrar.

\* When "or" is used between authors, students may choose either.

# OUTLINE OF THE COURSE OF STUDY.

## BIOLOGY.

Professor Joseph Le Conte will deliver a series of lectures on the Correlation of Vital with Physical and Chemical Forces; also, upon the Homologies of the Vertebrate Skeletons.

## OPERATIVE DENTISTRY AND DENTAL HISTOLOGY.

The course of instruction in this department will be as comprehensive and thorough as improved appliances and methods can make it, and will embrace both the Didactic and Clinical courses.

Intra and extra uterine development of the teeth will be fully considered from the *primary* germ to the final loss of the permanent teeth.

It will be the aim of the department to make the entire course of lectures from this chair as practical as possible, by a comparison of old and new methods, with a complete analysis of recent innovations in operative procedure.

Professor Dunbar will be assisted by Dr. H. P. Carlton, who will give three hours each week to clinical demonstrations, supplemented by a series of clinical lectures and a course in anæsthesia.

## SPECIAL COURSE IN HISTOLOGY AND PATHOLOGY.

The Faculty has been fortunate in securing the services of Professor Sudduth, whose whole time is spent in teaching and in original investigation. His collection of slides for the microscope is the result of many years labor; and from these he has made several sets of enlarged slides for the stereopticon, so that the specimens can be shown on a screen enormously enlarged.

The Faculty has induced Professor Sudduth to make a special trip to this Coast for the purpose of giving the following courses of instruction: First, a course of ten or fifteen lectures on Embryology and Pathology, embracing a comparative study of blood corpuscles. The lectures on Embryology will be illustrated by a full series of developing chicks and other embryos, showing the development of the blastoderm and products of the epiblast, including the development of the skin, mucous membrane, hair, nails, horns, and the enamel organ.

The products of the Mesoblast, including the development of bone, dentine and cement; also a comparative study of the development of the teeth; and a comparative study of their anatomy.

The lectures on Pathology will embrace the following subjects: Lesions of the dental pulp, including tissues developed thereby; secondary dentine, pulp nodules, and a full series of lesions found in the tusks of elephants.

General Bacteriology, including a series of photo-micrographs of the micro-organisms most commonly found in the mouth.



**Decay of the Teeth**, with photo-micographs of the bacteria, found in natural and artificial decay. Oral tumors.

These lectures will be delivered in the evening, and illustrated by the oxy-hydrogen lantern. This course will be open to all the students of the College, and to friends invited by the Faculty.

For the Senior Class, Professor Sudduth will give three days of each week, during his stay of six weeks, to a practical course in microscopic technic, including the preparation and mounting of specimens for the microscope. For this course the Faculty has imported from Europe fifteen microscopes and all the necessary accessories.

### **MECHANICAL DENTISTRY.**

The instruction in Mechanical Dentistry will embrace everything necessary to enable the dentist successfully to apply substitutes for lost dental organs.

Special reference will be made to the principles involved in the restoration of the natural functions of the teeth, namely: mastication, enunciation, and expression of the features; keeping in view always the health and the future usefulness of the living parts.

The instruction is divided into two courses, as follows:

*Junior Course.* Lectures on the treatment of the mouth and teeth preparatory to inserting artificial dentures; impressions in wax and plaster; casts; the manufacture of artificial teeth, their selection and arrangement for special cases; application of atmospheric pressure to artificial dentures; properties and uses in the construction of dentures, of wax, plaster, shellac, sandarach, rubber, and celluloid.

*Senior Course.* Lectures on the construction of instruments, of dies and counter-dies, of models of the mouth, and of molds; construction of dentures on bases of gold, silver, and aluminum; continuous gum work.

The construction of crown and bridge work will receive the attention of a special Demonstrator.

### **ORTHODONTIA AND DENTAL METALLURGY.**

The correction of irregularities of the natural teeth, as well as the causes, will be treated at length and illustrated by means of drawings and numerous casts of practical cases. Much more attention is paid to this subject by the profession than formerly, and an endeavor will be made to keep the classes posted in regard to all new and valuable methods.

The instruction in *Dental Metallurgy*, including the properties and uses of gold, silver, platinum, aluminum, zinc, lead, tin, and their alloys, and of iron and steel, will be made more complete than heretofore. Special attention will be paid to refining and alloying gold, and to estimating its fineness. Practical laboratory instruction will be given in working of the metals, and each student will be required to conduct all the usual operations in Dental Metallurgy, as well as to make experiments in new compounds and alloys. Considerable attention will be paid to the analysis and compounding of amalgam alloys.



## PHYSIOLOGY.

The lectures in this department, by Professor D'Ancona, embrace a consideration of both General and Special Physiology, including all that has been developed up to the present time, and are illustrated by the largest and most complete series of colored drawings in the United States, prepared exclusively for these lectures; besides which, the vast collection of preparations and drawings of the Scientific Department at Berkeley are at the command of the Professor. Vivisections are practiced when necessary to demonstrate principles, and the microscope is freely used for illustrating important facts and principles.

The course embraces the lectures of two years, one year being devoted to the physiology of the nervous system and reproduction, the other to nutrition, respiration, circulation, etc.

## SURGERY.

Professor W. E. Taylor, who is also the Professor of the Principles and Practice of Surgery in the Medical Department of the University of California, will deliver one lecture each week on the Science and Art of Surgery. His course will include General Surgical Principles and Pathology, and such Lectures as may seem best adapted to Students and Practitioners of Dentistry. Also a series of lectures on Anæsthesia and Anæsthetics, both general and local, with clinical illustrations, before the class, when practicable. Particular attention will be devoted to Surgical Diseases and injuries of the Mouth, Gums and Jaws, and the students will be instructed in their diagnosis, prognosis and treatment, both by lectures and clinical demonstrations.

## CHEMISTRY AND MATERIA MEDICA.

Professor Lengfeld will spare no effort to make the course in Chemistry and Materia Medica thoroughly practical and instructive. All important principles are illustrated by means of suitable philosophical, chemical, and other apparatus, and facts and theories are presented in a clear and comprehensive manner.

Special attention will be given to Dental Chemistry, Prescription Writing, and Salivary Analysis, and to the nature, origin, physical and chemical properties of the various remedies official in the United States Pharmacopœia.

Dr. H. N. Winton, Assistant to the Chair of Chemistry and Materia Medica, will conduct the Laboratory investigations, including qualitative analysis and recitations, at least two hours each week during the term.

Professor Felix Lengfeld (Professor of Chemistry in the South Dakota School of Mines) will, during the term, give a special course in General and Pharmaceutical Chemistry, illustrating his lectures with such experiments as may be profitable and interesting to the students.

The first course students will have practical instruction in the Chemical Laboratory three hours each week.

## ANATOMY.

Professor W. B. Lewitt's lectures on anatomy are illustrated fully by the cadaver, and by both wet and dry preparations, models, manikins, and drawings, and include a course on General, Special, and Topographical Anatomy, thus preparing the student for active surgical practice, as well as giving him a thorough knowledge of the relation of organs. Before each lecture a short examination is held on the subject of the preceding lecture.

## DENTAL PATHOLOGY AND THERAPEUTICS.

The lectures delivered by the incumbent of this chair will embrace a full and comprehensive course on the following topics:

**1. General Pathology.**—In which will be discussed those general aspects of disease with which it is necessary to be acquainted in order to be able to understand the nature of any departure from health; causes of disease, symptoms, diagnosis, prognosis, temperaments, pathology of anæsthetics, irritation, determination, congestion, inflammation and its terminations; effusion, suppuration, ulceration, gangrene, sloughing, morbid growths, etc.

**2. Special Pathology.**—In which a critical examination will be made into the special causes of dental decay; dental hygiene and prophylaxis; disease of the enamel—of the dentine; diseases of the dental pulp—together with the causes of alveolar abscess—its stages and results; exostosis of the roots and alveoli; necrosis and exfoliation; disease of the antrum; tumors, benign and malignant; diseases of the mucous membrane.

Neuralgia and other nervous affections will receive such attention as their importance may demand, and, besides, there will be presented such other special diseases as may in any degree be of interest to the dental practitioner, such as scurvy, scrofula, rachitis, and other diseases of the bones.

**3. General Principles of Therapeutics.**—Under which head the general application of Medicines will be noticed—their actions, constitutional and topical.

**4. Special Therapeutics.**—In connection with Dental Materia Medica as incidentally related thereto.

## THE DENTAL LABORATORY.

The Dental Laboratory will be in charge of the Superintendent of Infirmary, who will assign patients to students, and, with the Demonstrators of Mechanical Dentistry, will give practical instruction in preparing the mouth for the insertion of artificial teeth, taking impressions, selecting and arranging teeth, and the construction of artificial dentures on bases of vulcanite, celluloid, silver, gold, etc.; also, in alloying, refining and preparing the metals for use. Special attention will be given to continuous gum work. On account of the length of the term, the opportunities for practice in correcting irregularities of the teeth will be unsurpassed, and will receive their share of attention.

## THE DENTAL INFIRMARY.

The Operating Department will be under the immediate supervision of the Superintendent of Infirmary, who will have entire charge.

The rooms will be open during the forenoon of Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, and during the afternoon of each day except Saturday, until four o'clock, when all practical matters pertaining to Operative Dentistry will be fully dealt with by the Demonstrators, one of whom will always be present. The Infirmary will be open throughout the entire year, thus affording a practical course for first and second year students unsurpassed by any similar institution. As there is always an excess of clinical material on hand, and there are six hundred and forty-eight hours per term (including three hours each Wednesday afternoon) devoted to practical consideration of diseases of the teeth, and the adjacent parts, it is not difficult to estimate the advantages the students have in this department.

## DISSECTIONS.

The work in Practical Anatomy will be performed under the direction of the Demonstrator of Anatomy, in the dissecting room of the College of Medicine, Toland Hall, Stockton Street, between Chestnut and Francisco. The dissecting room is open throughout the entire year, and a full supply of material is always on hand at small cost, and is thoroughly preserved from decomposition. Upon the proper completion of the required dissections, the student is furnished by the Demonstrator with a certificate to that effect, which must be presented to the Dean for record.

The dissecting ticket (\$10) is good for the whole year—from January first to December thirty-first.

## CLINICAL INSTRUCTION.

During the course, Wednesday afternoons will be devoted to clinical lectures and operations by the Professors and Clinical instructors.

## HOSPITALS.

All students in Dentistry will have all the facilities and opportunities enjoyed by the medical students in hospital practice and observation. They will have the freedom, as above represented, of the City and County Hospital and the City Receiving Hospital.

Medical and Surgical Clinical lectures are given by the Professors of the Medical Department of the City and County Hospital, Tuesdays, Thursdays, and Saturdays, from 9 to 11 A. M.; attendance upon which, though not a requirement, is recommended on account of the unsurpassed facilities for study of anæsthetic methods.

For further particulars on this subject, see Medical Department announcement.

## LIBRARY AND MUSEUM.

A nucleus has been formed from which it is hoped a large library and museum will grow. All members and friends of the profession are invited to contribute books, pamphlets and journals, charts, anatomical, physiological and pathological specimens, casts of deformities and irregularities of the teeth and associate parts, or anything that will be useful or instructive.

These contributions will be placed in the library and museum, and marked with the name of the donor, if desired.

*As a separate library and reading room is now provided, a special request is made for donations of books and pamphlets.*

The Faculty desire to gratefully acknowledge a donation of the library and charts of Dr. A. F. McLain of Santa Rosa, formerly Professor of Pathology and Therapeutics in this College.

L. L. DUNBAR, Dean of the Faculty,

500 Sutter Street, San Francisco.

OFFICE HOURS: 7 to 8 P. M. only.

---

N. B.—BOARDING. The expense of living in the city of San Francisco is very reasonable. Good board, with room rent, may now be procured at the low rate of five dollars per week, at a convenient distance from the College building.

There is a free Public Library in San Francisco, of which students may have full benefit.

Upon arriving in the city, students will immediately register in the Dean's office, at the College building, No. 18 Taylor Street.



## STUDENTS OF THE SESSION OF 1890.

### SENIOR CLASS.

NAME.	RESIDENCE.	PRECEPTOR.
Albright, Frederick Harrison.....	Red Bluff, Cal.....	J. H. Epperson.
Backman, Gotthard Sigismund.....	Norrköping, Sweden.....	R.F. Ralls, D.D.S.
Bay, George Frederick I.....	San Francisco, Cal.....	Louis Bush.
Burleson, Frank Drake.....	Woodland, Cal.....	J. D. Hodgen, D.D.S.
Chardt, Paul Charles.....	Santa Clara, Cal.....	W. B. Kingsbury.
Chider, William T.....	Oakland, Cal.....	R.H. Cool, D.D.S.
Errick, Charles Alexis.....	San Francisco, Cal.....	John S. Porter.
Frobs, Saul Robert.....	San Francisco, Cal.....	B. R. Jacobs.
Itton, Charles Ashby.....	San Francisco, Cal..	Col. of Dentistry, U.C.
Ivegrove, Walter Romaine.....	San Francisco, Cal..	H. F. Baynes, D.D.S.
Martin, George.....	Oakland, Cal.....	John S. Porter.
McCargar, Richard.....	Chico, Cal..	P. McCargar, D.D.S.
Rawson, Clark Harrison.....	Jamestown, N. Y.....	J. B. Rawson.
Elmond, John Matthew.....	Santa Rosa, Cal.....	F. M. Caldwell.
Elison, David Warren.....	Reno, Nevada.....	M. A. Greenlaw.
Starp, William Fuller.....	San Francisco, Cal...	L. L. Dunbar, D.D.S.
Svester, Albert John.....	San Francisco, Cal..	Sylvester & Sublett.
Waff, Walter Randall.....	San Francisco, Cal.....	B. W. Haines, M.D., D.D.S.
Wyer, Adolphus G.....	Modesto, Cal.....	T. W. Drallard.

### JUNIOR CLASS.

NAME.	RESIDENCE.	PRECEPTOR.
Armstrong, Josephine Wright.....	San Francisco, Cal..	Col. of Dentistry, U.C.
Bataud, Eugene Hippolyte*.....	San Francisco, Cal.....	W. G. Sylvester, D.D.S.
Be, Charles Henry.....	San Francisco, Cal.....	H. G. Young.
Bier, Charles Franklin.....	San Francisco, Cal.....	J. S. Knowlton
Biteind, Wm, Martin Herman.....	San Francisco, Cal..	C. W. Decker.
Blgett, John Millard.....	Millville, Cal.....	A. D. Gleaves, D.D.S.
Bed, Samuel Alexander.....	San Francisco, Cal..	Col. of Dentistry, U.C.
Bret, Raoul Maximillian.....	Bronces, Sonora, Mexico...	H. L. Couret, D.D.S.
Kevin, Cecil.....	Oakland, Cal.....	G. H. Krichbaum.
Blott, D. Carter.....	Holly, Michigan...	Col. of Dentistry, U.C.
Tr, Philip Foster.....	Oakland, Cal.....	Col. of Dentistry, U.C.
Leh, Harry Lewis.....	San Francisco, Cal...	J. H. Hatch, D.D.S.
Grwold, Charles Lawrence.....	San Francisco, Cal.....	W. F. Griswold.
Iye, Edwin Chandler.....	Oakland, Cal.....	L. L. Dunbar, D.D.S.
Iye, Alfred Thomas.....	Spanish Ranch, Cal.....	Col. of Dentistry, U.C.
Iye, Charles George.....	Spanish Ranch, Cal.....	Col. of Dentistry, U.C.

Not in attendance.



JUNIOR CLASS—Continued.

NAME.	RESIDENCE.	PRECEPTOR.
Lockwood, Alfred Tennyson.....	Martinez, Cal.....	Col. of Dentistry, U.C.
Meek, Charles Avan.....	Grass Valley, Cal..	Col. of Dentistry, U.C.
McQuitty, William Andrew.....	San Francisco, Cal..	Col. of Dentistry, U.C.
Martin, William.....	Oakland, Cal.....	J. S. Porter.
Moore, Robert Isaac.....	San Francisco, Cal.....	J. S. Porter.
McCarthy, John Patrick.....	San Francisco, Cal.....	M. J. Dunn, D.D.S.
Millar, Robert Forrester.....	San Francisco, Cal.....	H. G. Young.
Milliken, George Thomas.....	San Francisco, Cal..	C.W. Richards, D.D.S.
Miles, Albert Dean Elmore.....	San Francisco, Cal.....	J. S. Porter and J. M. Curragh
Mish, Julien Emanuel*.....	San Francisco, Cal.....	F. F. Lord, M.D.
Phillips, Frank Harry.....	San Francisco, Cal..	C. H. Rawson, D.D.S.
Richards, Harry Griffin.....	San Francisco, Cal.....	B. W. Haines, M.D., D.D.S.
Seager, Harold Lawrence.....	Constantinople, Turkey..	F. R. Ledyard.
Shaw, Harry Howard.....	San Francisco, Cal.....	C. E. Case, D.D.S.
Thurston, George Washington.....	Cuffeys Cove, Cal..	E. A. Verrinder, M.I.
Van Orden, George Newins.....	Oroville, Cal.....	L. Van Orden, M.I.
Wadsworth, William Henry.....	Ukiah, Cal..	W. H. Hodghead, D.D.S., and C. W. Hibbard, D.D.S.

FRESHMAN CLASS.

NAME.	RESIDENCE.	PRECEPTOR.
Anderson, Gustav Edward Ferdinand..	Sweden.....	Col. of Dentistry, U.C.
Allen, Reginald Heber.....	Petaluma, Cal.....	Col. of Dentistry, U.C.
Grove, Will Caughlin.....	Oakland, Cal.....	G. W. Rodolph, D.D.
Gasteazoro, Maximiliano*.....	Nicaragua.....	Col. of Dentistry, U.C.
Gallwey, James Ambrose.....	San Francisco, Cal..	Col. of Dentistry, U.C.
McMurray, Milton.....	Crescent City, Cal..	Col. of Dentistry, U.C.
Payne, Clyde Sylvanus.....	San Francisco, Cal..	Col. of Dentistry, U.C.
Robertson, John.....	San Francisco, Cal..	Col. of Dentistry, U.C.
Taylor, William Emmet.....	Oakland, Cal.....	Col. of Dentistry, U.C.
Sullivan, Harry Francis.....	Oakland, Cal....	J. M. Dunn, D.D.S.
Whitman, William Colfax.....	Oakland, Cal.....	Col. of Dentistry, U.C.

Seniors.....	
Juniors.....	
Freshmen.....	
Total.....	

\*Not in attendance.

## COMMENCEMENT, 1890.

The Ninth Commencement Exercises of the College of Dentistry of the University of California were held at Odd Fellows' Hall, San Francisco, California, Thursday, November 13th, at eight o'clock P. M.

### ORDER OF EXERCISES.

OVERTURE, "William Tell,".....*Rossini*

PARK ORCHESTRA.

PRAYER, REV. F. B. PULLAN.

NOCTURNO, Solo for French Horn.....*Lorenz*

ADDRESS ON BEHALF OF THE FACULTY,

PROF. C. L. GODDARD, A.M., D.D.S.

SELECTION, Popular Melodies.....*Boettger*

CONFERRING THE DEGREE OF DOCTOR OF DENTAL SURGERY,

MARTIN KELLOGG, A.M., President *pro tem.* of the University.

SAXOPHONE SOLO, "La Tyrolienne,".....*Leon Chic*

BENEDICTION, REV. F. B. PULLAN.

## GRADUATES.

### 1882.

Thomas Watson Hall.....	Oakland, California
Charles Wesley Hibbard.....	San Francisco, California
Thomas Morffew.....	San Francisco, California
Henry John Plomteaux.....	Oakland, California
Charles Wesley Richards.....	San Francisco, California
Gustave William Sichel, M.D.....	San Francisco, California
William Henry Stanley.....	San Francisco, California
August Van Crombrughe †.....	San Francisco, California

### 1883.

John Nelson Blood.....	Greenville, California
Charles Boxton.....	San Francisco, California
Maria Angelina Burch *.....	Pescadero, California
Edward Overton Cochrane.....	San Francisco, California
Russell Hopkins Cool.....	Oakland, California
Milton Francis Gabbs.....	Sutter Creek, California
William Edmund Price.....	San Francisco, California

### 1884.

George Washington Cool.....	Oakland, California
John Michael Dunn.....	Oakland, California
Archibald Duncan Gleaves.....	Anderson, California
Robert Nicol.....	Archiestown, Scotland
Gustave Carl Rietzke.....	Kuhn, Germany
William Henry Simmons.....	Oakland, California
Elmer Joseph Weldon.....	Vacaville, California

### 1885.

Henry Sylvester Bettis.....	San Francisco, California
George Botsford.....	Campbellton, Canada
Daniel Barratt Cate.....	Quincy, California
Nathaniel Thomas Coulson.....	Cornwall, England
George Ihmer Drucker.....	San Francisco, California
William Ellis Fitzpatrick.....	Empire City, Nevada
Walter Robert Henderson.....	Stockton, California
John Adams Douglas Hutton.....	San Jose, California
Franklin Pancoast.....	San Francisco, California
Charles Theodore Rodolph.....	Oakland, California
Frederick Judson Saxe, A.M.....	Santa Clara, California
Joseph Schneider.....	Vallejo, California
Henry Sylvester, Jr. ....	San Francisco, California

### 1886.

Harry Putnam Carlton.....	Oakland, California
Hector Ludovic Couret.....	Sonora, Mexico
Martin Joseph Dunn.....	Berkeley, California
Nicholas Anton Givovich.....	Ragusa, Austria
John Gow Humphrey.....	San Francisco, California
Thomas Harvey Morris.....	Oakland, California
William Cormack Reith.....	Sacramento, California

\* Deceased.

† Name changed to August Van Crom by Superior Court San Francisco, July 22, '89

Joseph Emil Sand.....	San Francisco, California
Benjamin Franklin Simmons .....	Oakland, California
William Oltman Stuttmeister .....	Oakland, California
William Grover Sylvester.....	San Francisco, California

1887.

Edward Livingston Davis.....	San Jose, California
Joseph Dupuy Hodgen.....	Woodland, California
Harold McKean Jones.....	Cloverdale, California
Edward Maldonado.....	San Francisco, California
Robert Eugene Payne.....	San Francisco, California
Charles Edgar Post.....	San Francisco, California
Arthur Theodore Regensburger..	San Francisco, California
George Frederick Rodden.....	San Rafael, California
George Walter Rodolph.....	Oakland, California
Granville Eugene Shuey.....	Danville, California
Jennie Martha Simpson.....	Sacramento, California
Otto Frank Westfall.....	San Francisco, California

1888.

Ira Hart Chapman.....	San Francisco, California
Samuel Alston Hackett.....	Oakland, California
Frank Lewis Hultberg.....	San Francisco, California
Philander McCargar.....	Virginia City, Nevada
Joseph Pfister.....	Pinole, California
William George Shankey.....	San Francisco, California
Edward Nelson Short.....	San Francisco, California
Charles Sawtelle Weston.....	Oakland, California

1889.

Milton Ross Gambitz.....	San Francisco, California
Benjamin Mitchell Gunzberger..	San Francisco, California
William Alexander Meyer.....	San Francisco, California
Warren Guice Mobley.....	North Bloomfield, California
Dorr Nash .....	Nicolaus, California
Andrew John Powell.....	Haywards, California
Edward William Pratt .....	San Francisco, California
Frederick Courtland Sutliff.....	Sacramento, California
Arthur Henry Wallace.....	Stockton, California

1890.

Frederick Harrison Allbright.....	Red Bluff, California
Gotthard Sigismund Backman.....	Norrköping, Sweden
Frank Drake Burleson.....	Woodland, California
Paul Charles Erhardt.....	Santa Clara, California
William T. Heider.....	Oakland, California
Charles Alexis Herrick.....	San Francisco, California
Saul Robert Jacobs.....	San Francisco, California
Charles Ashby Litton.....	San Francisco, California
Valter Romain Lovegrove.....	San Francisco, California
George Martin.....	Oakland, California
Clark Harrison Rawson.....	Jamestown, New York
Richard McCargar.....	Chico, California
John Matthew Redmond.....	Santa Rosa, California
David Warren Rulison.....	Reno, Nevada
William Fuller Sharp.....	San Francisco, California
Albert John Sylvester.....	San Francisco, California

# UNIVERSITY OF CALIFORNIA.

## ACADEMIC SENATE.

NOTE.—The Faculties of the University, together with the Instructors, constitute by law the Academic Senate.

The names, excepting those of the President and Secretary, are arranged in the order of original accession to membership in the Academic Senate.

- MARTIN KELLOGG, A. M. . . . . PRESIDENT *pro tempore*  
Bushnell Street, near College Way, Berkeley.  
*Professor of the Latin Language and Literature.*
- JOHN HARMON C. BONTÉ . . . . . SECRETARY.  
Dwight Way, near Choate Street, Berkeley.  
*Professor of Legal Ethics.*
- JOHN LeCONTE, A.M., M.D., LL.D. . . . . Corner Mark Street and  
Dwight Way, Berkeley.  
*Professor of Physics.*
- JOSEPH LeCONTE, A.M., M.D., LL.D. . . . . Bancroft Way, near  
Piedmont Avenue, Berkeley.  
*Professor of Geology and Natural History, and Honorary Professor of  
Biology in the College of Dentistry.*
- FRANK SOULÉ, GRADUATE U. S. MILITARY ACADEMY, WEST POINT.  
960 Oak Street, Oakland.  
*Professor of Civil Engineering and Astronomy.*
- STEPHEN JOHNSON FIELD, LL.D. . . . . Washington, D. C., and  
San Francisco.  
*Honorary Professor of Law.*
- WILLARD BRADLEY RISING, A.M., M.E., Ph.D. . . . Corner Chapel  
Street and Allston Way, Berkeley.  
*Professor of Chemistry.*
- GEORGE WOODBURY BUNNELL, A.M. . 1955 Telegraph Ave, Oak'd.  
*Professor of the Greek Language and Literature.*
- GEORGE DAVIDSON, Ph.D., D.Sc. . . Appraiser's Bldg., San Francisco.  
*Honorary Professor of Geodesy and Astronomy.*
- RICHARD BEVERLY COLE, A.M., M.D., M.R.C.S., Eng. . . 218 Post  
Street, San Francisco.  
*Professor of Obstetrics and Gynecology.*
- MELANCTHON WILLIAMS FISH, M.D. . 461 E. 14th Street, Oakland.  
*Emeritus Professor of Physiology and Microscopy.*
- GEORGE CUNNINGHAM EDWARDS, Ph.B. . 1568 Webster St., Oak'd.  
*Associate Professor of Mathematics.*
- ALBIN PUTZKER . . . Corner Humboldt Ave. and Parker St., Berkeley.  
*Professor of the German Language and Literature.*
- EUGENE WOLDEMAR HILGARD, Ph.D., LL.D. . . . . Bancroft Way,  
near Audubon Street, Berkeley.  
*Professor of Agriculture and Agricultural Chemistry, and Director of  
Agricultural Experiment Stations.*



SAMUEL BENEDICT CHRISTY, PH.B. . . . . Piedmont Avenue, near Bancroft Way, Berkeley.

*Professor of Mining and Metallurgy.*

FREDERICK SLATE, B.S. Audubon St., near Bancroft Way, Berkeley.

*Associate Professor of Physics and Instructor in Mechanics.*

FREDERICK GODFREY HESSE. . . Corner Broadway and Telegraph Avenue, Oakland.

*Professor of Mechanical Engineering.*

BERNARD MOSES, PH.D.\*. Audubon St. nr. Univ. Grounds, Berkeley.

*Professor of History and Political Economy.*

WILLIAM CAREY JONES, A.M. . . . . University Avenue, near Oxford Street, Berkeley.

*Associate Professor of United States History.*

WM. THEODORE WENZELL, M.D., PHARM. M. . . 203 Polk St., S. F.

*Professor of Chemistry in the College of Pharmacy.*

ROBERT ARMISTEAD McLEAN, M.D. . . . . 603 Merchant St., S. F.

*Professor of Clinical and Operative Surgery; Dean of the Medical Faculty.*

GEORGE AUGUSTUS SHURTLEFF, M.D. . . . . Stockton.

*Emeritus Professor of Mental Diseases and Medical Jurisprudence.*

WILLIAM FLETCHER McNUTT, M.D., M. R. C. S. AND S. R. C. P.,  
EDIN. . . . . Corner Sutter and Montgomery Streets, San Francisco.

*Professor of the Principles and Practice of Medicine.*

SERRANNO CLINTON HASTINGS, LL.D. Phelan Bldg, San Francisco.

*Professor of Comparative Jurisprudence.*

EDMOND O'NEILL, PH.B. . . . . 1403 Chestnut Street, Oakland.

*Assistant Professor of Chemistry.*

EDWARD JAMES WICKSON, A.M. . . . . Corner Bancroft Way and Audubon Street, Berkeley.

*Lecturer on Practical Agriculture, and Assistant Superintendent of the Experimental Grounds.*

HANS HERMAN BEHR, M.D. . . . 509 Kearny Street, San Francisco.

*Professor of Botany in the College of Pharmacy.*

HENRY F. MEIER . . . . . San Francisco.

*Professor of the Theory and Practice of Pharmacy.*

WILLIAM MARTIN SEARBY. . . . . 859 Market Street, San Francisco.

*Professor of Materia Medica in the College of Pharmacy, and Dean of the Pharmaceutical Faculty.*

WILLIAM HENRY MAYS, M.D. . . 46 O'Farrell Street, San Francisco.

*Professor of Mental Diseases and Medical Jurisprudence.*

WILLIAM EDWIN TAYLOR, M.D. . 215 Geary Street, San Francisco.

*Professor of the Principles and Practice of Surgery.*

CLARK LAMOTTE GODDARD, A.M., D.D.S. . . . 131 Post St., S. F.

*Professor of Orthodontia and Dental Metallurgy.*

\* Absent on leave during the Academic Year, 1890-91.

- ABRAHAM LEWIS LENGFELD, M.D. . . . . 200 Stockton Street, S. F.  
*Professor of Materia Medica and Medical Chemistry.*
- IRVING STRINGHAM, Ph.D. . . . . Piedmont Avenue, facing  
 Bancroft Way, Berkeley.  
*Professor of Mathematics, Dean of the Faculty of Letters and of the  
 Faculties of Science.*
- EDWARD LEE GREENE, Ph.B. . . . . University Avenue, between  
 Sherman and Grant Streets, Berkeley.  
*Assistant Professor of Botany.*
- CORNELIUS BEACH BRADLEY, A.M.\*. 668 Eighteenth St., Oakland.  
*Associate Professor of the English Language and Literature.*
- WILLIAM BREAKER LEWITT, M.D., 605 Laguna St., San Francisco.  
*Professor of Anatomy, College of Dentistry.*
- BENJAMIN RALPH SWAN, M.D., 310 Stockton Street, San Francisco.  
*Professor of the Diseases of Children.*
- GEORGE HOLMES HOWISON, LL.D. . . . . Dwight Way, near  
 Choate Street, Berkeley.  
*Mills Professor of Intellectual and Moral Philosophy and Civil Polity.*
- LUIS LANE DUNBAR, D.D.S. . . . . 500 Sutter Street, San Francisco.  
*Professor of Operative Dentistry and Dental Histology, and  
 Dean of the Dental Faculty.*
- MAURICE JAMES SULLIVAN, D.D.S. . . . 30 Post St., San Francisco.  
*Professor of Dental Pathology and Therapeutics.*
- CHARLES WILLIAM SLACK, Ph.B., LL.B. . . 212 Sansome St., S. F.  
*Assistant Professor of Municipal Law.*
- HERMANN KOWER, C.E. . . . . 906 Broadway, Oakland.  
*Instructor in Instrumental Drawing.* ●
- EDWARD SINGLETON HOLDEN, A.M., LL.D. . . . Mount Hamilton.  
*Director of the Lick Observatory, and Astronomer.*
- WASHINGTON AYER, M.D. . . . . 410 Kearny Street, San Francisco.  
*Professor of Hygiene.*
- GEORGE HERMAN POWERS, A.M., M.D. . . . 215 Geary St., S. F.  
*Professor of Ophthalmology and Otology.*
- JOACHIM HENRY SENGER, Ph.D. . 2122 Steiner St., San Francisco.  
*Instructor in German and Greek.*
- WILLIAM WATT KERR, A.M., M.B. . . 600 Sutter St., San Francisco.  
*Professor of Clinical Medicine.*
- FELICIEN VICTOR PAGET, BACHELIER ÈS LETTRES, BACHELIER ÈS  
 SCIENCES. . . . . 1128½ Turk Street, San Francisco.  
*Assistant Professor of the French and Spanish Languages.*
- ARNOLD ABRAHAM D'ANCONA, A.B., M.D. . . . 405 Montgomery  
 Street, San Francisco.  
*Professor of Physiology and Microscopy.*

---

\* Absent on leave during the Academic Year, 1890-90.

- THOMAS RUTHERFORD BACON, A.B. . . . . Bushnell St., Berkeley.  
*Associate Professor of European History.*
- ELISHA WILLIAMS MCKINSTRY, LL.D. 4 Sutter St., San Francisco.  
*Professor of Municipal Law.*
- WILLIAM DALLAM ARMES, PH.B. . . . . Dwight Way, between  
 Fulton and Ellsworth Streets, Berkeley.  
*Instructor in English.*
- DOUGLAS WILLIAM MONTGOMERY, M.D. . . . 1124 Sutter St., S. F.  
*Professor of Histology and Pathology, Member of the Dispensary Staff, and  
 Curator of the Medical Department.*
- GEORGE MOREY RICHARDSON, PH.D. . . . . Durant Avenue, near  
 Shattuck Avenue, Berkeley.  
*Instructor in Latin.*
- FRANK GAYLORD HUBBARD, PH.D. . . . . Audubon Street, near  
 University Grounds, Berkeley.  
*Instructor in English.*
- HARLES MILLS GAYLEY, A.B. . . . . Bushnell Street, Berkeley.  
*Professor of the English Language and Literature.*
- JOHN HATFIELD GRAY, JR., B.S. . . . . Durant Avenue, near Fulton  
 Street, Berkeley.  
*Instructor in Chemistry.*
- ELLEN WOODMAN HASKELL, PH.D. . . . . Durant Avenue, near  
 Shattuck Avenue, Berkeley.  
*Assistant Professor of Mathematics.*
- ERMIN OTTO LEUSCHNER, A.B. . . . . University Avenue, near  
 Oxford Street, Berkeley.  
*Instructor in Mathematics.*
- ALEXANDER F. LANGE, A.M. . . . . University Avenue, near  
 Oxford Street, Berkeley.  
*Assistant Professor of English.*
- DOLPH CASPAR MILLER, A.M. . . . . Corner of Haste and South  
 Atherton Streets, Berkeley.  
*Lecturer on Political Economy.*
- BENJAMIN HARRISON RANDOLPH, FIRST LIEUTENANT, THIRD  
 U. S. ARTILLERY. . . . . Alameda.  
*Professor of Military Science and Tactics.*
- ANDREW COWPER LAWSON, A.M., PH.D. Corner Dwight Way  
 and Choate Street, Berkeley.  
*Assistant Professor of Mineralogy and Geology.*
- HENRY IRWIN RANDALL, B.S. . . . . Milvia Street, near Berkeley  
 Way, Berkeley.  
*Instructor in Civil Engineering.*
- JOHN MARSHALL WILLIAMSON, M.D. . . . . 906 Market St., S. F.  
*Professor of Anatomy, College of Medicine.*
- ROMEO J. B. ARGENTI, PH.G. . . . . 301 Third Street, San Francisco.  
*Professor of Microscopy and Pharmacognosy.*

# UNIVERSITY OF CALIFORNIA.

## DEPARTMENTS AT BERKELEY,

INCLUDING

- |   |                                       |
|---|---------------------------------------|
| 1. COLLEGE OF LETTERS.                          | 2. COLLEGE OF AGRICULTURE.            |
| (a) CLASSICAL COURSE.                           | 3. COLLEGE OF MECHANICS.              |
| (b) LITERARY COURSE.                            | 4. COLLEGE OF MINING.                 |
| (c) COURSE IN LETTERS AND<br>POLITICAL SCIENCE. | 5. COLLEGE OF CIVIL ENGI-<br>NEERING. |
| 6. COLLEGE OF CHEMISTRY.                        |                                       |

---

## THE ACADEMIC COUNCIL.

NOTE.—The Academic Council is composed of all the Professors and Instructors in the College of Letters and the Colleges of Science.

The names, excepting that of the Chairman, are divided into groups of professors, associate professors, lecturers, and instructors, and arranged alphabetically in each group.

---

———, President of the University, CHAIRMAN.

MARTIN KELLOGG, A.M., Professor of the Latin Language and Literature, CHAIRMAN *pro tempore*.

GEORGE WOODBURY BUNNELL, A.M., Professor of the Greek Language and Literature.

SAMUEL B. CHRISTY, PH.B., Professor of Mining and Metallurgy.

CHAS. M. GAYLEY, A.B., Professor of the English Language and Literature.

FREDERICK G. HESSE, Professor of Mechanical Engineering.

EUGENE W. HILGARD, PH.D., LL.D., Professor of Agriculture, Agricultural Chemistry, and Director of Agricultural Experiment Stations.

GEORGE H. HOWISON, LL.D., Mills Professor of Intellectual and Moral Philosophy and Civil Polity.

JOHN LeCONTE, M.D., LL.D., Professor of Physics.

JOSEPH LeCONTE, M.D., LL.D., Professor of Geology and Natural History.

BERNARD MOSES, PH.D.,\* Professor of History and Political Economy.

ALBIN PUTZKER, Professor of the German Language and Literature.

BENJAMIN H. RANDOLPH, 1ST LIEUT. THIRD U. S. ARTILLERY, Professor of Military Science and Tactics.

WILLARD B. RISING, M.E., PH.D., Professor of Chemistry.

---

\*Absent on leave during the academic year 1890-91.



- FRANK SOULÉ (GRADUATE U. S. MILITARY ACADEMY), Professor of Civil Engineering and Astronomy.
- IRVING STRINGHAM, PH.D., Professor of Mathematics.
- THOS. R. BACON, A.B., B.D., Associate Professor of European History.
- CORNELIUS B. BRADLEY, A.M., Associate Professor of the English Language and Literature.
- GEORGE C. EDWARDS, PH.B., Associate Professor of Mathematics.
- WILLIAM CAREY JONES, A.M., Associate Professor of United States History.
- FREDERICK SLATE, B.S., Associate Professor of Physics and Instructor in Mechanics.
- EDWARD L. GREENE, PH.B., Assistant Professor of Botany.
- CELLEN W. HASKELL, PH.D., Assistant Professor of Mathematics.
- ALEXANDER F. LANGE, A.M., Assistant Professor of English.
- ANDREW C. LAWSON, A.M., PH.D., Assistant Professor of Mineralogy and Geology.
- MOND O'NEILL, PH.B., Assistant Professor of Chemistry.
- ELICIEN V. PAGET, Bachelier ès Lettres, Bachelier ès Sciences, Assistant Professor of the French and Spanish Languages.
- DOLPH C. MILLER, A.M., Lecturer on Political Economy.
- EDWARD JAMES WICKSON, A.M., Lecturer on Practical Agriculture.
- WILLIAM D. ARMES, PH.B., Instructor in English.
- SAAC FLAGG, PH.D., Temporary Substitute in Latin.
- JOHN H. GRAY, JR., B.S., Instructor in Chemistry.
- FRANK G. HUBBARD, PH.D., Instructor in English.
- BERMANN KOWER, C.E., Instructor in Instrumental Drawing.
- ERMIN O. LEUSCHNER, A.B., Instructor in Mathematics.
- HENRY I. RANDALL, B.S., Instructor in Civil Engineering.
- GEORGE M. RICHARDSON, PH.D., Instructor in Latin.
- HENRY SENGER, PH.D., Instructor in German and Greek.
- INLAY COOK, PH.B., Recorder of the Faculties, SECRETARY.

#### ASSISTANTS AND OTHER OFFICERS.

NOTE—The names are arranged in the order of original appointment.

- JOSEPH C. ROWELL, A.B., Librarian of the University.
- JOHN J. RIVERS, Curator of the University Museum.
- MYER E. JAFFA, PH.B., Assistant in the Agricultural Laboratory.
- JOSEPH A. SLADKY, Superintendent of the Machine Shops.
- GEORGE E. COLBY, PH.B., Second Assistant in the Viticultural Laboratory.



JOSEPH W. FLYNN, University Printer.

FRANKLIN BOOTH, B.S., Instructor in Metallurgy.

WILLIAM J. RAYMOND, B.S., Assistant in Physics.

JOSEPH D. LAYMAN, B.L., Assistant Librarian.

VICTOR K. CHESNUT, B.S., Second Assistant in Chemistry.

ELMER R. DREW, B.S., Assistant in Physics.

KENNETH McLENNAN, Foreman of the Southern California Agricultural Experiment Station.

EMMET RIXFORD, B.S., Assistant in Mechanics.

RICHARD D. CRUICKSHANK, Foreman of the Southern Coast Range Agricultural Experiment Station.

J. G. G. HANSEN, Foreman of the Foothill Agricultural Experiment Station.

FRANK H. PAYNE, M.D., Director of Physical Culture.

WALTER MAGEE, Assistant in Physical Culture.

JULIUS FARRER, Foreman of the San Joaquin Valley Agricultural Experiment Station.

FREDERICK T. BIOLETTI, Foreman of the Central Agricultural Experiment Station Cellar.

LOUIS PAPARELLI, Lic.Ag., First Assistant in the Viticultural Laboratory.

JAMES SUTTON, Ph.B., Clerk to the Recorder.

EVERETT F. GOODYEAR, Clerk to the Director of Agricultural Experiment Stations.

F. W. A. WRIGHT, B.S., First Assistant in Chemistry.

C. H. SHINN, Inspector of Agricultural Experiment Stations.

L. M. HALL, Student Assistant in Mechanics.

EMIL KELLNER, Foreman of the Central Agricultural Experiment Station.

F. D. BROWNE, Student Assistant in Civil Engineering.

# UNIVERSITY OF CALIFORNIA.

## MEDICAL DEPARTMENT.

### FACULTY.

- MARTIN KELLOGG, A.M., President *pro tem.* of the Academic Senate.
- H. A. SHURTLEFF, M.D., Emeritus Professor of Mental Diseases and Medical Jurisprudence.
- L. W. FISH, M.D., Emeritus Professor of Physiology and Microscopy.
- R. BEVERLY COLE, A. M., M. D., M. R. C. S., Eng., Professor of Obstetrics and Gynecology.
- V. F. McNUTT, M.D., M.R.C.P., Edin., etc., Professor of Principles and Practice of Medicine.
- ROBERT A. McLEAN, M.D., Professor of Clinical and Operative Surgery; Dean.
- V. E. TAYLOR, M.D., Professor of Principles and Practice of Surgery.
- A. L. LENGFELD, M.D., Professor of Materia Medica and Medical Chemistry.
- BENJ. R. SWAN, M.D., Professor of Diseases of Children.
- WASHINGTON AYER, M.D., Professor of Hygiene.
- GEORGE H. POWERS, A.M., M.D., Professor of Ophthalmology and Otology.
- WM. WATT KERR, A.M., M.B., C.M., Professor of Clinical Medicine.
- RNOLD A. D'ANCONA, A.B., M.D., Professor of Physiology.
- DOUGLAS W. MONTGOMERY, M.D., Professor of Pathology and Microscopy; Curator.
- WASHINGTON DODGE, M.D., Professor of Therapeutics.
- JOHN M. WILLIAMSON, M.D., Professor of Anatomy.
- JOHN W. ROBERTSON, A.B., M.D., Lecturer on Mental Diseases and Medical Jurisprudence.
- ELIX LENGFELD, Ph.G., Ph.D., Lecturer on Chemistry.
- JOHN H. BARBAT, Ph.G., M.D., Demonstrator of Anatomy.
- I. N. WINTON, M.D., Assistant to the Chair of Materia Medica and Medical Chemistry.
- A. VON HOFFMAN, M.D., Assistant to the Chair of Obstetrics and Gynecology.
- AM. P. TUGGLE, M.D., Assistant Demonstrator of Anatomy.

### College Dispensary Staff.

- WM. H. MAYS, M.D., Nervous Diseases.
- WASHINGTON DODGE, M.D., Medicine.
- D. W. MONTGOMERY, M.D., Diseases of the Skin.

The Preliminary Term begins March second.

The Regular Term begins June first.

Graduates of Dental Colleges in good standing are admitted to the second year without examination.

ROBERT A. McLEAN, M. D., Dean,  
603 Merchant Street, corner of Montgomery, San Francisco, Cal.

# UNIVERSITY OF CALIFORNIA.

## DEPARTMENT OF PHARMACY.

---

### CALIFORNIA COLLEGE OF PHARMACY.

113 Fulton Street, San Francisco.

---

#### FACULTY.

———, President of University of California.

WILLIAM T. WENZELL, M.D., Ph.G., Ph.M., Professor of Chemistry.

HERMANN H. BEHR, M.D., Professor of Botany.

WILLIAM M. SEARBY, Professor of Materia Medica, and Dean.

HENRY F. MEIER, Professor of Pharmacy.

J. J. B. ARGENTI, Ph.G., Professor of Microscopy and Pharmacognosy.

---

The Nineteenth Annual Course will begin April 6th, 1891, and continue to October 1st of the same year. Lectures will be delivered on Chemistry, Materia Medica, Botany, Microscopy, Pharmacognosy and Theoretical and Practical Pharmacy. Arrangements have been made to provide Laboratory Instruction in Chemical and Pharmaceutical work, and in every respect efforts will be made to keep pace with the rapid advancement of Pharmaceutical Science.

#### REQUIREMENTS FOR ADMISSION.

Every applicant for admission to the regular course for graduation at this College will be required to pass a preliminary examination, or to present a diploma or other satisfactory written evidence that he has passed the first grammar grade, and is entitled to enter a High School of this State, or has attended some academy of a grade equal to that of our High Schools. Those who do not present such certificates will be examined in English reading and composition, writing, geography and arithmetic.

Candidates will therefore be at the College on Friday, April 3rd, at 9 A. M., for the purpose of matriculating, when those who are possessed of satisfactory certificates will be allowed to matriculate without examination, and all others will be examined in the above mentioned branches.

#### REQUIREMENTS FOR GRADUATION.

Every person upon whom the diploma of Graduate in Pharmacy shall be conferred must be of good moral character, shall have attained the age of twenty-one years, and attended two full courses in each of the departments of this College, or one course (the Senior) in this, after a course in some other recognized College of Pharmacy. He must have

had, inclusive of the time of attendance at this College, four years' experience in a pharmacy where prescriptions are compounded, and must have attended the Senior laboratory course of this College. No special examination will be held for candidates for the degree, but only an examination at the end of the regular course. Students failing to attend less than two-thirds of the lectures in each chair, will not be allowed to enter the final examinations.

Candidates must be recommended jointly by the Faculty and Examining Board to the Regents of the University of California, by whom the degree is conferred (the College of Pharmacy being affiliated with the University).

### FEES.

Matriculation (paid but once).....	\$ 2 50
Botany (for each term).....	12 50
Chemistry (for each term).....	12 50
Pharmacy (for each term).....	12 50
Materia Medica (for each term).....	12 50
Microscopy and Pharmacognosy.....	12 50
Fee for Final Examination (payable but once, and not refunded in case of failure).....	10 00
Certificate of Proficiency.....	2 00
Review class for each branch for the term.....	1 50
Laboratory instruction for Juniors for the term...	6 00
Laboratory instruction for Seniors for the term.....	12 00

### PHARMACISTS ENTERING MEDICAL COLLEGES.

Graduates in Pharmacy of this College are permitted to present themselves for examination for the degree of Doctor of Medicine in the Medical Department of the University of California and in the Cooper Medical College, after attending either of these school two years instead of three, as required of other students. The fees have also been reduced in like proportion to graduates in Pharmacy. This generous concession is a gratifying evidence of the value of pharmaceutical instruction, and should not be overlooked by young men who design to make the practice of medicine their ultimate object.

Graduates of such Medical Colleges as are recognized by the American Medical Association will be permitted to present themselves for examination for the degree after one year's attendance at this College, provided they have complied with all the other conditions for graduation.

Other students, not intending to pursue Pharmacy as their vocation, will be admitted to the lectures, or any one of the courses they may desire to attend, by paying the matriculation fee and that of the chair or chairs of instruction. They may be examined in the special subject or subjects with the students of the Senior class, and certificates of proficiency will be awarded to them on the same conditions as to the

regular students. Special students will not, in any case, be eligible for the degree of Graduate in Pharmacy.

**A Gold Medal, Scientific Apparatus, and a Free Scholarship** will be bestowed in each session. For particulars, see Prospectus.

Assistants seeking situations, and employers wanting clerks, should register their names with the Dean.

---

*For Prospectus, terms, and further information, address :*

W. M. SEARBY, *Dean*,  
859 MARKET STREET,  
SAN FRANCISCO, CAL.

THE LIBRARY OF THE  
FEB 26 1931  
UNIVERSITY OF ILLINOIS.



## ARTICLE II, SECTION 3,

—OF THE—

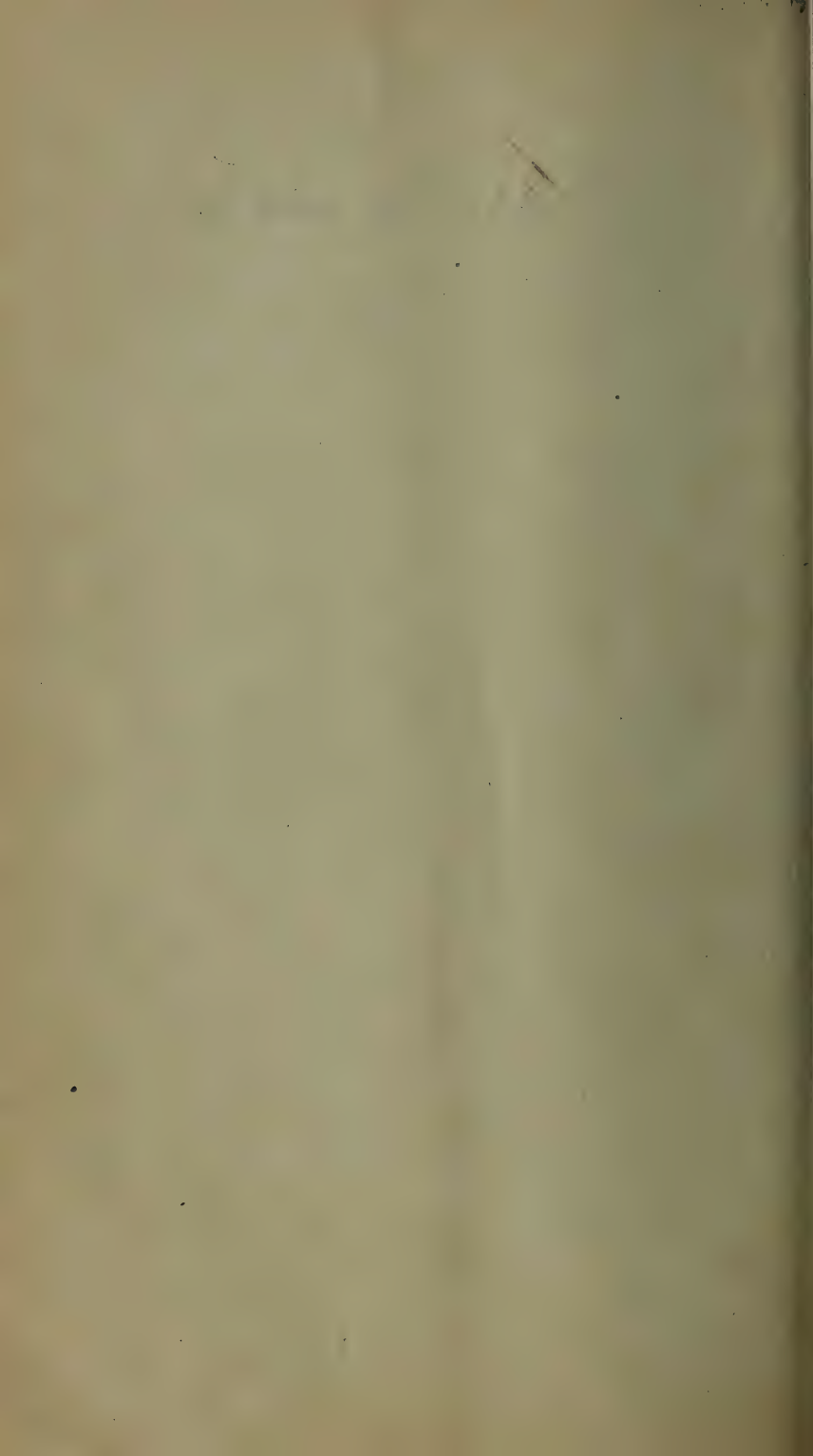
# CODE OF DENTAL ETHICS

—OF THE—

## American Dental Association.

It is unprofessional to resort to public advertisements, such as cards, hand bills, posters or signs, calling attention to peculiar styles of work, prices for services, special modes of operating, or to claim superiority over neighboring practitioners: or to publish reports of cases or certificates in public print; or to go from house to house soliciting or performing operations, to circulate or recommend nostrums, or to perform any other similar act.

But nothing in this section shall be so construed as to imply that it is unprofessional for Dentists to announce in the public prints, or by card, simply their names, occupation and place of business, or in the same manner to announce their removal, absence or return to business, or to issue to their patients appointment cards having a fee bill for professional services thereon.



# COLLEGE OF DENTISTRY

OF THE

University of California.

LIBRARY OF THE  
FEB 26 1931  
UNIVERSITY OF ILLINOIS.



NO. 18 TAYLOR STREET, COR. MARKET.

## ELEVENTH SESSION,

Commencing June 6, 1892, and Ending February 25, 1893.

SAN FRANCISCO:

P. M. Diers & Co., Printers.

1892.



# ANNOUNCEMENT

OF THE

## COLLEGE OF DENTISTRY

OF THE

University of California, *THE LIBRARY OF THE  
FEB 26 1931  
UNIVERSITY OF ILLINOIS,*

FOR ITS

ELEVENTH SESSION,

Commencing June 6, 1892, and Ending February 25, 1893.

---

N. B.—Those who wish to receive the Announcement are requested to forward their Names and Addresses to the Dean.

---

SAN FRANCISCO:

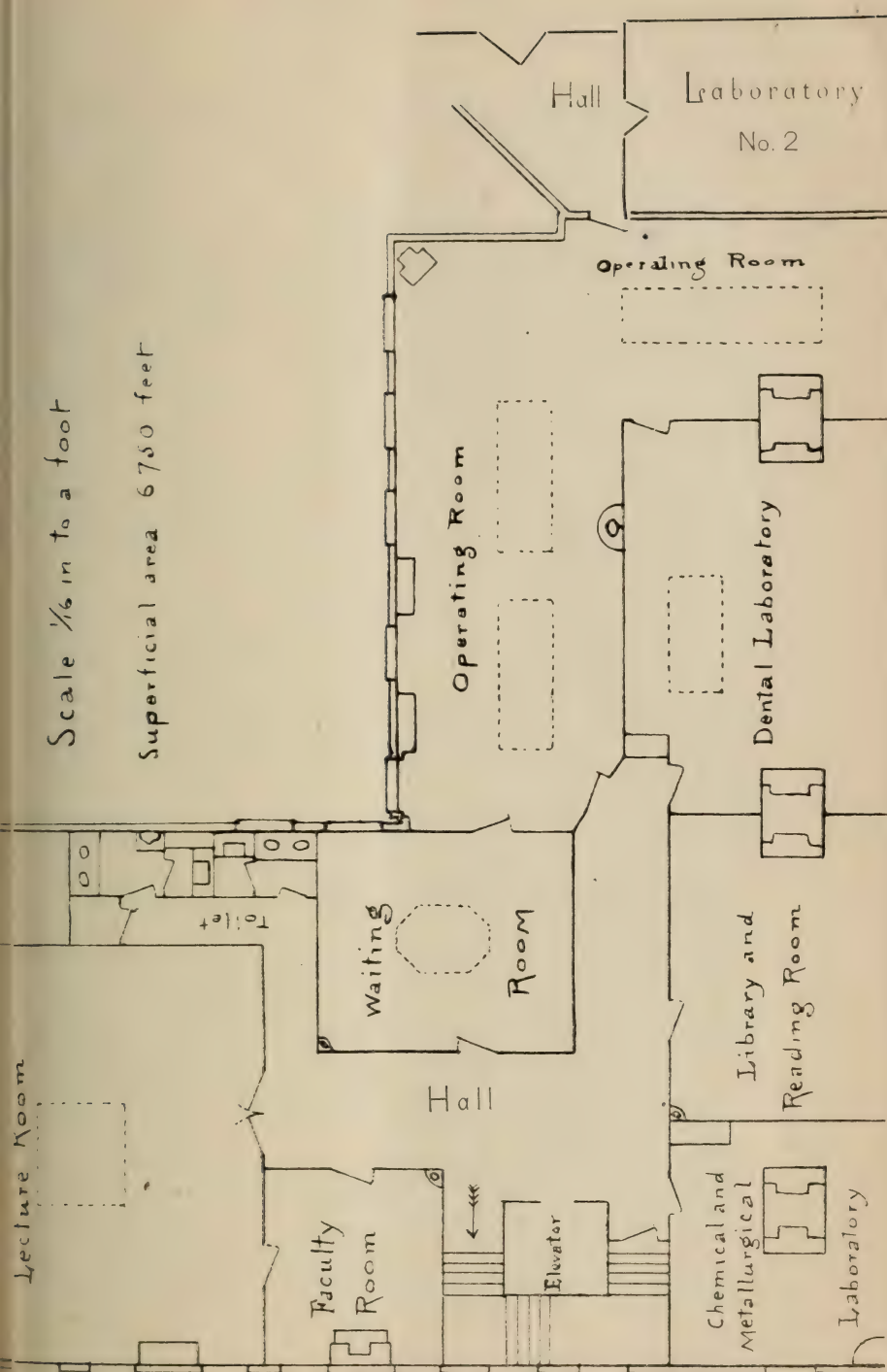
P. M. Diers & Co., Printers.  
1892.



# CONTENTS.

---

	Page
FLOOR PLAN OF ROOMS - - - - -	3
OFFICE DIRECTORY - - - - -	5
BOARD OF REGENTS - - - - -	6
FACULTY - - - - -	7
ANNOUNCEMENT - - - - -	9
SCHEDULE OF STUDY - - - - -	11
REQUIREMENTS FOR ADMISSION - - - - -	14
REQUIREMENTS FOR GRADUATION - - - - -	16
FEES - - - - -	16
TEXT BOOKS - - - - -	17
OUTLINE OF THE COURSE OF STUDY - - - - -	18
LIST OF STUDENTS - - - - -	25
COMMENCEMENT EXERCISES - - - - -	28
LIST OF GRADUATES - - - - -	29
ACADEMIC SENATE - - - - -	32
LITERARY AND SCIENTIFIC DEPARTMENTS - - - - -	38
MEDICAL DEPARTMENT - - - - -	40
PHARMACEUTICAL DEPARTMENT - - - - -	42



FLOOR PLAN OF ROOMS OF COLLEGE OF DENTISTRY



# OFFICE DIRECTORY.

## IN BERKELEY.

- The office of the PRESIDENT is Room No. 20, *North Hall*.  
The office of the DEAN is Room No. 32, *North Hall*.  
The office of the RECORDER is Room No. 21, *North Hall*.  
The office of the SECRETARY and office of the BOARD OF REGENTS is in *South Hall*.  
The office of the LAND AGENT is in *South Hall*.

## AT MT. HAMILTON.

- The address of the DIRECTOR OF THE LICK OBSERVATORY is Lick Observatory, Mt. Hamilton, Santa Clara County, California.

## IN SAN FRANCISCO.

- The office of the REGISTRAR OF THE COLLEGE OF LAW is No. 230 Montgomery Street, Room 15.  
Lectures in the COLLEGE OF LAW are delivered in the Assembly Room of the Society of Pioneers, No. 808 Montgomery Street.  
The office of the DEAN OF THE MEDICAL FACULTY is No. 603 Merchant Street.  
The COLLEGE OF MEDICINE is situated on Stockton Street, between Chestnut and Francisco, in Toland Hall.  
The Medical and Surgical Clinics of the COLLEGE OF MEDICINE are held at the City and County Hospital, Twenty-second street and Potrero Avenue.  
The Dispensary Clinics of the COLLEGE OF MEDICINE are held in Toland Hall.  
The office of the DEAN OF THE DENTAL FACULTY is No. 500 Sutter Street.  
Lectures in the COLLEGE OF DENTISTRY are delivered in the College building, No. 18 Taylor Street, corner of Market.  
The office of the DEAN OF THE COLLEGE OF PHARMACY is No. 859 Market Street.  
The COLLEGE OF PHARMACY is situated at No. 113 Fulton Street, between Polk Street and Van Ness Avenue.  
The office of the BOARD OF REGENTS is in the Halleck Building, No. 320 Sansome Street, Room 14.  
The office of the TREASURER OF THE BOARD OF REGENTS is No. 310 Sansome Street.

# UNIVERSITY OF CALIFORNIA.

## BOARD OF REGENTS.

### Ex-Officio Regents.

HIS EXCELLENCY HENRY H. MARKHAM.....	SACRAMENTO.
<i>Governor, ex-officio President of the Board.</i>	
HIS HONOR JOHN BURKE REDDICK.....	SAN ANDREAS
<i>Lieutenant-Governor.</i>	
HON. FRANK LESLIE COOMBS.....	NAPA.
<i>Speaker of the Assembly.</i>	
HON. JAMES WRIGHT ANDERSON.....	SACRAMENTO.
<i>State Superintendent of Public Instruction.</i>	
HON. FREDERICK COX.....	SACRAMENTO.
<i>President of the State Agricultural Society.</i>	
DAVID KERR, Esq.....	47-49 Beale Street, SAN FRANCISCO.
<i>President of the Mechanics' Institute.</i>	
.....	BERKELEY.
<i>President of the University.</i>	

### Appointed Regents.\*

NAME.	ADDRESS.	TERM EXPIRES
REV. HORATIO STEBBINS, D.D.,	1609 Larkin St., S. F.	- 1894
HON. J. WEST MARTIN,	Union Savings Bank, Oakland, - - - -	- 1898
ANDREW S. HALLIDIE, ESQ.,	9 Fremont St., S. F.	- - 1908
HON. WILLIAM T. WALLACE,	799 Van Ness Ave., S. F.	1902
JAMES A. WAYMIRE,	Alameda, - - - -	1908
J. F. HOUGHTON, ESQ.,	Palace Hotel, S. F.	- 1904
HON. TIMOTHY GUY PHELPS,	Custom House, S. F.	- - 1896
ISAIAS WILLIAM HELLMAN, ESQ.,	Nevada Bank, S. F.	- - 1902
GEORGE THOMAS MARYE, JR., LL.B.,	234 Montgomery St., S.F.	1898
ARTHUR RODGERS, A.B., Ph.B.,	309 Montgomery St., S.F.	1900
GEORGE JENNINGS AINSWORTH, Ph.B.,	Redondo, - - - -	- 1900
DELPHIN MICHAEL DELMAS, A.M., LL.B.,	310 Pine St., S. F.	- - 1900
ALBERT MILLER, ESQ.,	532 California St., S. F.	- 1900
COLUMBUS BARTLETT, ESQ.,	14 Sansome St., S. F.	- 1896
CHARLES FREDERICK CROCKER, ESQ.,	Cor. Fourth and Towns- end Sts., S. F.	- - - 1900
CHESTER ROWELL, M.D.,	Fresno, - - - -	1899

J. H. C. BONTÉ, D.D., Secretary, Berkeley.

Regular meetings of the Board of Regents are held seven times a year, viz.: in San Francisco, on the second Tuesday in August, in October, in December, in February, in April, and in June; in Berkeley on the day preceding Commencement Day in the College of Letters and the Colleges of Science.

\* In the order of original appointment.



# UNIVERSITY OF CALIFORNIA.

## COLLEGE OF DENTISTRY,

DONAHOE BUILDING, CORNER OF MARKET AND TAYLOR STREETS, S. F.

### FACULTY.

MARTIN KELLOGG, A.M., President *pro tem.* of the University, and *ex-officio* President of the Faculty.

JOSEPH LeCONTE, M.D., LL.D., Honorary Professor of Biology.

C. L. GODDARD, A.M., D.D.S., Professor of Orthodontia and Dental Metallurgy.

L. L. DUNBAR, D.D.S., Dean, and Professor of Operative Dentistry and Dental Histology.

MAURICE J. SULLIVAN, D.D.S., Professor of Dental Pathology and Therapeutics.

W. E. TAYLOR, M.D., Professor of the Principles and Practice of Surgery.

A. L. LENGFELD, M.D., Professor of Materia Medica and Chemistry.

WILLIAM B. LEWITT, M.D., Professor of Anatomy.

A. A. D'ANCONA, A.B., M.D., Professor of Physiology.

### LECTURERS.

W. XAVIER SUDDUTH, M.A., M.D., D.D.S., Special Lecturer on Histology and Pathology.

CHARLES BOXTON, D.D.S., Lecturer on Mechanical Dentistry.

HARRY P. CARLTON, D.D.S., Lecturer on Operative Dentistry.

H. N. WINTON, M.D., Lecturer on Chemistry.

### DEMONSTRATORS AND ASSISTANTS.

J. D. HODGEN, D.D.S., Superintendent of Infirmary.

HARRY P. CARLTON, D.D.S., Demonstrator of Operative Technic.

F. J. LANE, D.D.S., Demonstrator of Operative Dentistry.

EDWARD N. SHORT, D.D.S., Demonstrator of Operative Dentistry.

CHARLES BOXTON, D.D.S., Demonstrator of Mechanical Technic.

M. F. GABBS, D.D.S., Demonstrator of Continuous Gum Work.

S. A. HACKETT, D.D.S., Demonstrator of Mechanical Dentistry.

W. F. SHARP, D.D.S., D.M.D., Instructor in Anæsthesia.

F. O. JACOBS, Instructor in Microscopic Technic.

CHAS. E. POST, D.D.S., Demonstrator of Mechanical Dentistry.

Demonstrators and Assistants—Continued.

HAROLD L. SEAGER, D.D.S., Demonstrator of Mechanical Dentistry.  
J. T. ROWAND, D.D.S., Demonstrator of Crown and Bridge Work.  
JÓHN H. BARBAT, PH.G., M.D., Demonstrator of Anatomy.  
O. W. JONES, M.D., Assistant Demonstrator of Anatomy.  
J. D. HODGEN, D.D.S., Assistant in Metallurgy.  
H. D. NOBLE, D.D.S., Demonstrator of Orthodontia Technic.

---

CLINICAL INSTRUCTORS.

J. L. ASAY, M.D.....	San Jose
F. W. BLISS, D.D.S.....	Santa Cruz.
GEO. H. CHANCE, D.D.S.....	Portland, Oregon.
H. C. DAVIS, L.D.S.....	San Francisco.
WARREN DeCROW.....	San Jose.
A. O. HOOKER.....	San Jose.
W. B. KINGSBURY.....	Santa Clara.
H. E. KNOX, D.D.S.....	Oakland.
W. F. LEWIS.....	Oakland.
J. P. PARKER, D.D.S.....	Santa Cruz.
W. E. PRICE, D.D.S.....	San Francisco.
F. J. SAXE, D.D.S.....	Oakland.
MAX SICHEL.....	San Francisco.
E. L. TOWNSEND, D.D.S.....	Los Angeles.
L. VAN ORDEN, M.D.....	San Francisco.
WILLIAM WOOD.....	Sacramento.

---

L. L. DUNBAR, Dean,  
No. 500 Sutter Street, San Francisco.

## ELEVENTH SESSION.

1892-93.

In announcing the opening of our 11th Session, on June 6th, 1892, the Faculty of the College of Dentistry of the University of California reaffirms its confidence in the policy of conducting this school upon a high standard of entrance requirements and curriculum. For eight years it has been a "three-year" school, so that the adoption of the new rule of the National Association of Dental Faculties worked with us no radical change. The largely increased attendance of 1891, and the better quality of material presented, is evidence of an appreciation of the character of the institution very gratifying to its promoters and friends.

Being remote from that element so damaging to higher standards of excellence, "competition," we are enabled to fix and maintain a high standard of entrance examinations, impartially conducted, and for some years have held two entrance examinations only, on fixed dates, and conducted by a competent educator, who is selected annually by the Faculty for this purpose. The standard of these examinations has been advanced slightly each year, and every effort is made to select the best material possible for our classes.

The graded course of instruction adopted in 1891 gives promise of good results. More time is given to technical work than heretofore, and the effect of systematic employment of time upon the *morale* of students is gratifying.

Our new College building is admirably situated for convenient access, occupying a prominent corner upon the main thoroughfare of the city, contiguous to all lines of cars, direct or by transfer.

The supply of Clinic material has always been abundant, and, even in our former obscure location, more than could be served. With a central location our dispensary practice has more than doubled. The College is provided with a commodious operating room, furnished with thirty improved chairs, with brackets, lockers and stands for each, and abundantly lighted.

The Dental laboratory is on the same floor, immediately adjoining the operating room, access to which is had in two ways. Everything necessary to a complete demonstration of modern prosthetic methods will be here found. The Chemical and Metallurgical laboratory is a separate feature, and complete in every detail.

Arrangements have been made with Prof. W. Xavier Sudduth, M.D., D.D.S., for a continuance of his course in Histology and Pathology, including a full laboratory course and work with the microscope, in which he will be assisted by Dr. F. O. Jacobs as Instructor in Microscopic Technic. Dr. Jacobs is well known as an expert in this branch, having given especial attention for years to the preparation of specimens for the Microscope. For this purpose a class room and laboratory is provided, with all the requisites for instruction, including fifteen superior Microscopes.

The lecture room is commodious, and capable of seating two hundred persons. There is also provided a library and reading room, hat and coat room, toilet rooms for both sexes, a comfortable waiting room for the dispensary, and other rooms for Faculty use. Access to the rooms is had by elevator and stairway from No. 18 Taylor Street, and exit may be made in this way, and also by means of an elevator and stairway on the Market-street side.

All the lectures of the department will be delivered in the College lecture room, but the work in Practical Anatomy will be performed under the superintendence of the Demonstrator of Anatomy, at the College of Medicine, Stockton Street, between Chestnut and Francisco. The sessions of the College have heretofore been held in the summer months, and the Faculty, recognizing the necessity of uniformity in sessions among the Colleges of the National Association, will gradually change the time of opening its session from February 1st to September 1st, closing May 31st instead of October 31st, as heretofore. In order to bring about this change without working hardship to our classes, it was decided to postpone our opening of the 10th Session for two months, and the opening of the 11th Session for two months additional, thus fixing our date of opening June 6th.

With the beginning of the 12th Session, in 1893, the change will have been accomplished, and the College will in future hold its sessions co-incidental with the other schools forming the National Association. Although a department of the State University, no financial aid or support has ever been given the College of Dentistry by the State; it is, therefore, obliged to depend upon the fees of students for providing necessary equipment and maintenance. It is fondly hoped, however, that all the professional colleges of the University will, at no distant day, be sufficiently endowed to make them what was originally intended, viz: schools where our growing youth may be thoroughly equipped for some specific life-work at a minimum cost.

While the Undergraduate Departments of the University are clustered at Berkeley, the professional colleges are, for convenience of clinical study, conducted wholly in San Francisco.

There are seven Professors in the College, besides a corps of able and efficient special lecturers and demonstrators. The Professors will lecture each week, according to schedule of instruction published in this announcement. Wednesday afternoon of each week will be set apart as heretofore, for Clinical Instructors, and two or more are on the schedule for each week during the term.

The Dental laboratory is furnished with benches, lathes, furnaces for melting, forge, rolling mill, continuous gum furnaces, and all other requisites for thorough work. Each student is required to furnish his own instruments and tools, and will be provided with a separate drawer in which they can be securely locked. Those who have instrument and laboratory tools and appliances should bring them; those who have not are advised to defer purchasing until they arrive. Lists of instru-



ments and appliances requisite will be furnished by the Superintendent. During the hours devoted to Operative or Mechanical Dentistry, competent Demonstrators will be present to assist the students in their operations. The Superintendent of the Infirmary will receive and assign patients to students, and will have general supervision of the Infirmary.

With the Session of 1892, this College enforced the rule of the National Association of Dental Faculties, as per resolution adopted at their annual meeting, held August 5th, 1889, viz: "That all Colleges of the Association require an attendance upon three full regular courses in separate years before graduation."

### SCHEDULE OF STUDY.

*Session of 1892.—Term commences June 6, 1892, and closes February 25, 1893.*

#### Order of Lectures and Clinics.

#### FRESHMAN YEAR.

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.		
9 A. M. to 11 A. M.	LABORATORY.	CHEMICAL LABORATORY.	LABORATORY.	CHEMICAL LABORATORY	LABORATORY.		
11 A. M. to 12 M.	LECTURE, Chemistry, Prof. LENGFELD.	OPERATIVE TECHNIC.		OPERATIVE TECHNIC.	LECTURE, Chemistry, Prof. LENGFELD.		
1 P. M. to 3 P. M.	LABORATORY.	LABORATORY.		LABORATORY.	LABORATORY.	LABORATORY.	
3 P. M. to 4 P. M.	LECTURE, Physiology, Prof. D'ANCONA.		CLINICAL INSTRUCTORS.				LECTURE, Physiology, Prof. D'ANCONA.
4 P. M. to 5 P. M.	LECTURE, Anatomy, Prof. LEWITT.		LECTURE, Mechanical Den- tistry, Dr. BOXTON.				DISSECTING.

SATURDAY, 9 A. M. to 12 M.

LABORATORY CLINICS OR SURGICAL CLINICS AT CITY AND COUNTY HOSPITAL.



## ORDER OF LECTURES AND CLINICS—Continued.

### JUNIOR YEAR.

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.
9 A. M. to 11 A. M.	OPERATIVE CLINIC and Pathology, Prof. SULLIVAN.	OPERATIVE CLINIC, Dr. CARLTON and Dr. LANE.	OPERATIVE CLINIC, Dr. SHORT. Crown and Bridge Work, Dr. ROWAND.	OPERATIVE CLINIC, Dr. CARLTON and Dr. LANE.	OPERATIVE CLINIC, Dr. SHORT.
11 A. M. to 12 M.	LECTURE, Chemistry, Prof. LENGFELD.				LECTURE, Chemistry, Prof. LENGFELD.
1 P. M. to 3 P. M.	CLINIC, Mechanical Den- tistry, Dr. HACKETT.	CLINIC, Mechanical Dentistry, DRS. BOXTON and POST.	CLINICAL INSTRUCTORS.	CLINIC, Mechanical Dentistry, Dr. HACKETT.	CLINIC, Mechanical Den- tistry, Dr. POST.
3 P. M. to 4 P. M.	LECTURE, Physiology, Prof. D'ANCONA.				LECTURE, Physiology, Prof. D'ANCONA.
4 P. M. to 5 P. M.	LECTURE, Anatomy, Prof. LEWITT.				LECTURE, Anatomy, Prof. LEWITT.
5 P. M. to 6 P. M.	LECTURE, Operative Den- tistry, Prof. DUNBAR.	DISSECTING.	Dental Metal- lurgy and Orthodontia, Prof. GODDARD.	LECTURE, Pathology and Therapeutics, Prof. SULLIVAN.	LECTURE, Operative Den- tistry, Prof. DUNBAR.
SATURDAY, 9 A. M. to 12 M. OPERATIVE CLINICS AND HOSPITAL CLINICS IN SURGERY.					

From June 6th to August 1st, Special Evening Lectures in Histology and Pathology, with lantern illustrations, will be given by Prof. W. Xavier Sudduth, M.D., D.D.S., Monday and Friday evenings, at 8 P. M.

Tuesday and Thursday, at 1 P. M., Microscopic Technic—Dr. Jacobs.

# ORDER OF LECTURES AND CLINICS—Continued.

## SENIOR YEAR.

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.
9 A. M. to 11 A. M.	CLINIC, Pathology and Therapeutics, Prof. SULLIVAN.	OPERATIVE CLINIC, Dr. CARLTON and Dr. LANE.	OPERATIVE CLINIC, Dr. SHORT. Crown and Bridge Work, Dr. ROWAND.	OPERATIVE CLINIC, Dr. CARLTON and Dr. LANE.	OPERATIVE CLINIC, Dr. SHORT.
11 A. M. to 12 M.	LECTURE, Chemistry, Prof. LENGFELD.		LECTURE, Surgery, Prof. TAYLOR.		LECTURE, Chemistry, Prof. LENGFELD.
1 P. M. to 3 P. M.	CLINIC, Mechanical Den- tistry, Dr. HACKETT.	CLINIC, Mechanical Dentistry, Dr. POST.	CLINICAL INSTRUCTORS.	CLINIC, Mechanical Dentistry, Dr. BOXTON.	CLINIC, Mechanical Den- tistry, Dr. POST.
3 P. M. to 4 P. M.	LECTURE, Physiology, Prof. D'ANCONA.				LECTURE, Physiology, Prof. D'ANCONA.
4 P. M. to 5 P. M.	LECTURE, Anatomy, Prof. LEWITT.	LECTURE, Mechanical Dentistry, Dr. BOXTON.	LECTURE, Dental Metallurgy and Orthodontia, Prof. GODDARD.	LECTURE, Mechanical Dentistry, Dr. BOXTON.	LECTURE, Anatomy, Prof. LEWITT.
5 P. M. to 6 P. M.	LECTURE, Operative Den- tistry, Prof. DUNBAR.	Practical Metallurgy, Dr. HODGEN.		LECTURE, Pathology and Therapeutics, Prof. SULLIVAN.	LECTURE, Operative Dentistry, Prof. DUNBAR.
SATURDAY, from 9 A. M. to 12 M., OPERATIVE CLINICS AND HOSPITAL CLINICS IN SURGERY.					

Monday, Wednesday, and Friday, at 1 P. M., from June 9th to July 15th (six weeks), course in Physiological Laboratory and work with the Microscope, under the direction of Prof. Sudduth, for Senior Class only.

Wednesday, at 3 P. M., Surgical Clinic by Prof. W. E. Taylor, and Instruction in Anæsthesia by Dr. W. F. Sharp.

## REQUIREMENTS FOR ADMISSION.

Every candidate for admission must be eighteen years of age, must present to the Faculty satisfactory evidence of a good moral character, and must be examined as to his previous education and fitness to appreciate the technical study of Dentistry. The examinations will be chiefly in writing, and will embrace the following subjects, viz:

1. Arithmetic.
2. Geography.
3. English Grammar and Composition.
4. United States History.
5. Natural Philosophy. (Refer to Avery's Natural Philosophy, Peck's Ganot's Introductory Course in Natural Philosophy, or an equivalent.)
6. Elementary Chemistry. (Refer to Meade's Chemical Primer, Elliott and Storer's Chemistry, Avery's Chemistry, or an equivalent.)
7. Latin. Beginning with the session of 1893-94, applicants will be examined in Robinson's Latin Grammar of Pharmacy and Medicine, or an equivalent.

Applicants intending to take this examination are advised to review their studies before doing so. Conditions imposed at the entrance examinations must be removed before taking examinations for promotion.

No matriculation examination will be required of those who have passed the entrance examination of the University of California, or of any other recognized College or University, nor of graduates of any recognized academy or high school, nor of those holding teachers' certificates.

In order to secure a release from this examination, the candidate must present his diploma or certificate of examination or graduation.

Graduates and Undergraduates of Medicine desiring to qualify themselves for the practice of Dentistry, will be governed by the following rules of the National Association of Dental Faculties:

*Resolved*, That after the Session of 1890-91, a diploma from a reputable Medical College shall entitle its holder to enter the second course in Dental Colleges of this Association, but he may be excused from attendance upon lectures and examinations upon the following subjects: General Anatomy, Chemistry, Physiology, Materia Medica and Therapeutics. (Excelsior, 1890.)

*Resolved*, That the candidates for admission to the Colleges of this Association who are Undergraduates in a reputable Medical College, may be admitted to the Junior class, subject to the rules of examination governing admission to that class. (Saratoga, 1891.)

Candidates for admission to advanced standing will be governed by the following rules:

*Resolved*, That the Colleges of this Association may receive into the Junior or Senior classes only such students as hold certificates of having passed a satisfactory

examination in the studies of the Freshman or of Junior years respectively; this certificate is to be a pledge to any College to which they may apply that a previous year has been properly spent in the institution from whence they come. (Chicago, 1885; changed, Saratoga, 1891.)

*Resolved.* That applicants for admission to advanced standing from foreign countries shall be required to furnish properly attested evidence of study, attendance upon lectures, etc., the same as required of applicants here, and they shall pass the intermediate examinations. (Chicago, 1885; changed, Saratoga, 1891.)

---

## PRELIMINARY EXAMINATIONS.

There are two general examinations for entrance held each year, on fixed dates; these are conducted by some well-known educator, who is selected for this purpose annually. Students desiring to enter must present themselves on the dates named, as no other examinations for entrance will be given.

The preliminary examination for the Session of 1892-93 will be held in San Francisco, at the College building, corner Market and Taylor Streets (entrance No. 18 Taylor Street), Tuesday, May 31st, at 9 o'clock A. M. The second examination will be held Saturday, July 2d, at 9 o'clock A. M. Students desiring to present themselves at these examinations will please register their applications with the Clerk of the Faculty, at the College, No. 18 Taylor Street.

---

## THREE YEARS' STUDY.

The three years' course of study is arranged as follows:

*Freshman Year.*—Anatomy, with dissections; Physiology; Chemistry, with laboratory work; Mechanical Dentistry; Operative Technic.

Examinations will be held at the end of the year in all the above branches.

*Junior Year.*—Anatomy, with dissections; Physiology; Chemistry, with laboratory work; Materia Medica; Mechanical Dentistry; Operative Dentistry; Histology, with microscopic technic; Pathology and Therapeutics; Orthodontia.

Examinations will be held at the end of the year in all the above branches, and will be final in Anatomy, Physiology, Chemistry and Materia Medica.

*Senior Year.*—Operative Dentistry; Mechanical Dentistry; Histology, with microscopic technic; Orthodontia, with practical cases; Metallurgy, with laboratory work; Pathology and Therapeutics; Surgery.



## REQUIREMENTS FOR GRADUATION.

The candidate for the Degree of Doctor of Dental Surgery must have attained the age of twenty-one years, and be of good moral character.

He shall have passed a satisfactory examination, oral, written and practical.

He shall have studied Dentistry *three* years, including the time spent in attending lectures.

He shall have attended three full courses in the Dental Department of the University of California, or two years in some other reputable Dental Colleges, and the third or last in this College.

The candidate is required to dissect two quarters. He must treat thoroughly some patient, requiring all the usual dental operations, and bring such patient before the Professors of Operative Dentistry and Dental Pathology and Therapeutics. He must also complete at least one practical artificial denture, insert at least one crown or piece of bridge work, and, after completion, bring his patient before the Lecturer on Mechanical Dentistry at least thirty days before the close of the term. He must treat one case of irregularity, and, after the case is completed, bring his patient before the Professor of Orthodontia during the term. He must also prepare a specimen denture, to be deposited in the College collection, and present the same to the Lecturer on Mechanical Dentistry at least thirty days before the end of the term. The operating and the work on the artificial cases must be done at the College building, and exclusively by the applicant for the degree.

After these requirements have been complied with, upon the recommendation of the Faculty and approval of the Board of Regents, the candidate shall receive the degree of Doctor of Dental Surgery.

---

## SCHEDULE OF FEES.

Matriculation .....	\$ 5 00
Lecture Fees (each year).....	100 00
Special Course (Histology), Junior and Senior years.....	10 00
Practical Anatomy (first and second years).....	10 00
Fee for Final Examination (not returnable).....	25 00

N. B.—Students who entered as Juniors in 1891 will observe the old schedule of fees.



### TEXT BOOKS.\*

The following books will be needed during the course of study. Students are advised to procure Nos. 1, 2, 3, 4, 5 and 14 of the subjoined list at the beginning of the first year, and to add the others before the Senior year:

1. Dental Dictionary, Harris, or Medical Dictionary, Dunglison or Thomas.
2. Anatomy, Gray, Quain or Holden.
3. Physiology, Yeo and Flint.
4. Mechanical Dentistry, Richardson or Harris.
5. Operative Dentistry, Harris, Taft or Fillebrown.
6. Dental Chemistry, Mitchell.
7. Dental Anatomy, Black.
8. Orthodontia, Guilford.
9. Dental Metallurgy, Essig.
10. Dental Materia Medica and Therapeutics, Gorgas or Stockens.
11. Surgery, Ashurst or Walsham.
12. Therapeutics, Wood, Biddle or Bartholow.
13. Dental Pathology, Wedl.
14. Chemistry, Roscoe's Elementary Chemistry and Remsen's Introduction to the Study of Chemistry.
15. Materia Medica, United States Dispensatory or National Dispensatory.

### ADDITIONAL BOOKS FOR REFERENCE.

Oral Surgery, Garretson.  
American System of Dentistry, Litch.  
Histology, Stricker, Frey, Beal or Wythe.  
Microscopical Morphology, Heitzman.  
Pathology, Wagner.  
Oral Deformities, Kingsley.  
Nitrous Oxide, Guilford.  
Mechanical Dentistry, Haskell.  
Micro-Organisms of the Human Mouth, Miller.  
Irregularities, Farrar or Talbot.  
Latin, Robinson's Grammar of Pharmacy and Medicine.

---

\* The first mentioned is the approved text book.

# OUTLINE OF THE COURSE OF STUDY.

---

## BIOLOGY.

Professor Joseph LeConte will deliver a series of lectures on the Correlation of Vital with Physical and Chemical Forces; also, upon the Homologies of the Vertebrate Skeletons.

---

## OPERATIVE DENTISTRY AND DENTAL HISTOLOGY.

The course of instruction in this department will be as comprehensive and thorough as improved appliances and methods can make it, and will embrace both the Didactic and Clinical courses.

Intra and extra uterine development of the teeth will be fully considered from the *primary* germ to the final loss of the permanent teeth.

It will be the aim of the department to make the entire course of lectures from this chair as practical as possible, by a comparison of old and new methods, with a complete analysis of recent innovations in operative procedure.

Professor Dunbar will be assisted by Dr. H. P. Carlton, who will give three hours each week to Clinical demonstrations, supplemented by a series of Clinical lectures and a course in Operative Technic, for Freshman students.

---

## SPECIAL COURSE IN HISTOLOGY AND EMBRYOLOGY.

Freshman, Junior and Senior Years.

The subject of Histology will be taught didactically and practically. Two days a week for six weeks will be devoted to practical work in the laboratory by the Junior and Senior classes, during which time the student will prepare for himself a series of specimens illustrative of normal tissues and developing teeth.

A special course of twelve lectures will be given on Embryology, and fully illustrated by photo-micrographs, which will be thrown on the screen by aid of the stereopticon. This course is introductory to the subjects of Anatomy, Physiology and Histology, and will consist of a full consideration of the following subjects: A general study in the development of the chick and other embryos, the theory of reproduction, ova, spermatozoa, segmentation, and the development of the three layers of the blastoderm, cellular morphology, including a comparative study of the biological cell, and the nature of protoplasm, a comparative study in blood corpuscles and the development of the blood, with a full consideration of the function of the third-blood corpuscle; the products of the epiblast, including the development of hair, nails, horns, hoofs, sudiporous, suderiferous glands and the enamel organ of the teeth.

The products of the mesoblast, showing the development of the connective tissue group, including the subject of calcification of bone, dentine and enamel—illustrative of the latter many slides will be used in the comparative study of hard tissues—and lastly, the development of the teeth will be fully considered by aid of a full line of photographs from human, porcine and other embryo.

---

## DENTAL PATHOLOGY AND HYGIENE.

### Junior and Senior Years.

The teaching in this department will begin with a full presentation of lesions of the vascular system; inflammation, local and general; the causes that lead to decay of the teeth, and the nature of the process; the food and other habits of different nations in relation to the etiology of decay; also, the pathological conditions directly connected in decay of the teeth, such as pathological dentition, pyorrhœa alveolaris, pulpitis, pulp nodules, secondary dentine, periodontitis, alveolar abscess, caries of the jaw and necrosis dependent upon a diseased condition of the teeth. The lantern will frequently be used in illustrating these lectures. The importance of the study of Hygiene cannot be overestimated when it is understood that decay of the teeth, suppuration of the pulp and other tissues, alveolar abscess, pyorrhœa alveolaris, and perhaps other of the diseases of the teeth and associate parts with which dentists have to deal, are the direct result of unhygienic conditions of the oral cavity. The student will be made conversant with the modes of cultivating germs and the manner of their growth, methods of disinfection and antisepsis to be used in the oral cavity. The care of instruments and the danger of infection by their use when not kept in an aseptic condition will be fully dwelt upon.

Prof. Sudduth will be assisted in this department by Dr. F. O. Jacobs, a specialist in Microscopic Technology, who will devote two hours each week to instruction of the Junior class in Microscopic Technic, cutting sections of hard and soft tissues, mounting specimens, staining, etc., etc.

---

## MECHANICAL DENTISTRY.

The instruction in Mechanical Dentistry will embrace everything necessary to enable the dentist successfully to apply substitutes for lost dental organs.

Special reference will be made to the principles involved in the restoration of the natural functions of the teeth, namely: mastication, pronunciation, and expression of the features; keeping in view always the health and the future usefulness of the living parts.

The instruction is divided into two courses, as follows:

*Junior Course.*—Lectures on the treatment of the mouth and teeth preparatory to inserting artificial dentures; impressions in wax and

plaster; casts; the manufacture of artificial teeth, their selection and arrangement for special cases; application of atmospheric pressure to artificial dentures; properties and uses in the construction of dentures, of wax, plaster, shellac, sandarach, rubber and celluloid.

*Senior Course.*—Lectures on the construction of instruments, of dies and counter-dies, of models of the mouth, and of molds; construction of dentures on bases of gold, silver, and aluminum; continuous gum work.

The construction of crown and bridge work will receive the attention of a special Demonstrator.

---

## ORTHODONTIA AND DENTAL METALLURGY.

The correction of irregularities of the natural teeth, as well as the causes, will be treated at length and illustrated by means of drawings and numerous casts of practical cases. Much more attention is paid to this subject by the profession than formerly, and an endeavor will be made to keep the classes posted in regard to all new and valuable methods. Each Senior student is required to treat a case of irregularity during the session. Junior students will have a practical course in the construction of regulating appliances, exemplified in a series of demonstrations of Orthodontia Technic.

The instruction in *Dental Metallurgy*, including the properties and uses of gold, silver, platinum, aluminum, zinc, lead, tin, and their alloys, and of iron and steel, will be made more complete than heretofore. Special attention will be paid to refining and alloying gold, and to estimating its fineness.

Practical laboratory instruction will be given by Dr. Hodgen in working of the metals, and each student will be required to conduct all the usual operations in Dental Metallurgy, as well as to make experiments in new compounds and alloys. Considerable attention will be paid to the analysis and compounding of amalgam alloys.

---

## PHYSIOLOGY.

The lectures in this department, by Professor D'Ancona, embrace a consideration of both General and Special Physiology, including all that has been developed up to the present time, and are illustrated by the largest and most complete series of colored drawings in the United States, prepared exclusively for these lectures; besides which the vast collection of preparations and drawings of the Scientific Department at Berkeley are at the command of the Professor. Vivisections are practiced when necessary to demonstrate principles, and the microscope is freely used for illustrating important facts and principles.

The course embraces the lectures of two years, one year being devoted to the physiology of the nervous system and reproduction, the other to nutrition, respiration, circulation, etc.



## SURGERY.

Prof. W. E. Taylor, who is also the Professor of the Principles and Practice of Surgery in the Medical Department of the University of California, will deliver one lecture each week on the Science and Art of Surgery, and devote one hour each week to a Surgical Clinic. His course will include General Surgical Principles and Pathology, and such lectures as may seem best adapted to Students and Practitioners of Dentistry. Also, a series of lectures on Anæsthesia and Anæsthetics, both general and local, with clinical illustrations before the class, assisted by Dr. Sharp. Particular attention will be devoted to Surgical Diseases and injuries of the Mouth, Gums and Jaws, and the students will be instructed in their diagnosis, prognosis and treatment, both by lectures and clinical demonstrations.

---

## CHEMISTRY AND MATERIA MEDICA.

Prof. A. L. Lengfeld, in his course, will deliver two lectures each week, devoting special attention to that part of Chemistry which pertains more particularly to Dentistry. The lectures will be fully illustrated by means of all the necessary chemical and philosophical apparatus and numerous experiments. Materia Medica will be taught by lectures and recitations. The nature, physical and chemical properties of the various remedies employed in Dentistry, will be illustrated by the exhibition of crude drugs and pharmaceutical preparations, and by botanical plates and specimens.

A prominent feature of the course will be a recitation during a portion of each hour, the questions being based upon the subjects of the preceding lectures and Roscoe's Lessons in Elementary Chemistry.

---

## PRACTICAL CHEMISTRY.

Dr. H. N. Winton, Assistant to the Chair of Chemistry and Materia Medica, will conduct a systematic and practical course in Experimental Chemistry, Qualitative Analysis and Salivary Analysis. Each student is provided with a separate table and a complete set of apparatus and chemicals, and performs individually all experiments and reactions. Two courses in Practical Chemistry are required :

I.—*First Year*.—Following Remsen's Introduction to the Study of Chemistry as a guide, each student will perform a series of experiments in which he will develop the main principles of the science of Chemistry, and become familiar with the physical and chemical properties of the leading families of elements and their compounds.

II.—*Second Year*.—The experimental work will be continued. Special regard will be given to Analytical Chemistry and the analysis of the Saliva.

A fee of five dollars will be charged, to cover breakage and loss.



**Text Books.**—Lessons in Elementary Chemistry, Roscoe; An Introduction to the Study of Chemistry, Remsen; United States Dispensatory; Dental Medicine, Gorgas.

---

## ANATOMY.

Prof. W. B. Lewitt's course on Anatomy will consist of a series of recitations or "quizzes," illustrated by wet and dry preparations, models, manikins and drawings. The course includes General, Special and Topographical Anatomy.

---

## DENTAL PATHOLOGY AND THERAPEUTICS.

The lectures delivered by the incumbent of this chair will embrace a full and comprehensive course on the following topics:

1. **General Pathology.**—In which will be discussed those general aspects of disease with which it is necessary to be acquainted in order to be able to understand the nature of any departure from health; causes of disease, symptoms, diagnosis, prognosis, temperaments, pathology of anæsthetics, irritation, determination, congestion, inflammation and its terminations; effusion, suppuration, ulceration, gangrene, sloughing, morbid growths, etc.

2. **Special Pathology.**—In which a critical examination will be made into the special causes of dental decay; dental hygiene and prophylaxis; disease of the enamel—of the dentine; diseases of the dentinal pulp—together with the causes of alveolar abscess—its stages and results; exostosis of the roots and alveoli; necrosis and exfoliation; disease of the antrum; tumors, benign and malignant; diseases of the mucous membrane.

Neuralgia and other nervous affections will receive such attention as their importance may demand; and, besides, there will be presented such other special diseases as may in any degree be of interest to the dental practitioner, such as scurvy, scrofula, rachitis and other diseases of the bones.

3. **General Principles of Therapeutics.**—Under which head the general application of Medicines will be noticed—their actions, constitutional and topical.

4. **Special Therapeutics.**—In connection with Dental Materia Medica, as incidentally related thereto.

---

## THE DENTAL LABORATORY.

The Dental Laboratory will be in charge of the Superintendent of Infirmary, who will assign patients to students, and, with the Demonstrators of Mechanical Dentistry, will give practical instruction in preparing the mouth for the insertion of artificial teeth, taking impressions, selecting and arranging teeth, and the construction of

artificial dentures on bases of vulcanite, celluloid, silver, gold, etc.; also, in alloying, refining, and preparing the metals for use. Special attention will be given to continuous gum work. On account of the length of the term, the opportunities for practice in correcting irregularities of the teeth will be unsurpassed, and will receive their share of attention.

---

### THE DENTAL INFIRMARY.

The Operating Department will be under the immediate supervision of the Superintendent of Infirmary, who will have entire charge.

The rooms will be open during the forenoon of Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, and during the afternoon of each day except Saturday, until four o'clock, when all practical matters pertaining to Operative Dentistry will be fully dealt with by the Demonstrators, one of whom will always be present. The Infirmary will be open throughout the entire year, thus affording a practical course for first and second year students unsurpassed by any similar institution. As there is always an excess of clinical material on hand, and there are six hundred and forty-eight hours per term (including three hours each Wednesday afternoon) devoted to practical consideration of diseases of the teeth and the adjacent parts, it is not difficult to estimate the advantages the students have in this department.

---

### DISSECTIONS.

The work in Practical Anatomy will be performed under the direction of the Demonstrator of Anatomy and his assistant, in the dissecting room of the College of Medicine, Toland Hall, Stockton Street, between Chestnut and Francisco. The dissecting room is open throughout the entire year; a full supply of material is always on hand at small cost, and is thoroughly preserved from decomposition. Upon the proper completion of the required dissections, the student is furnished by the Demonstrator with a certificate to that effect, which must be presented to the Dean for record.

The dissecting ticket (\$10) is good for the whole year—from January 1st to December 31st.

---

### CLINICAL INSTRUCTION.

During the course, Wednesday afternoon will be devoted to Clinical lectures and operations by the Professors and Clinical Instructors.

---

### HOSPITALS.

All students in Dentistry will have all the facilities and opportunities enjoyed by the medical students in hospital practice and observation.

They will have the freedom, as above represented, of the City and County Hospital and the City Receiving Hospital.

Medical and Surgical Clinical lectures are given by the Professors of the Medical Department of the City and County Hospital, Tuesdays, Thursdays and Saturdays, from 9 to 11 A. M.; attendance upon which, though not a requirement, is recommended on account of the unsurpassed facilities for study of anæsthetic methods.

For further particulars on this subject, see Medical Department Announcement.

---

### LIBRARY AND MUSEUM.

A nucleus has been formed, from which it is hoped a large library and museum will grow. All members and friends of the profession are invited to contribute books, pamphlets and journals, charts, anatomical, physiological and pathological specimens, casts of deformities and irregularities of the teeth and associate parts, or anything that will be useful or instructive.

These contributions will be placed in the library and museum, and marked with the name of the donors, if desired.

*As a separate library and reading room is now provided, a special request is made for donations of books and pamphlets.*

The Faculty desire to gratefully acknowledge donations of books and pamphlets from Drs. W. E. Taylor, A. L. Lengfeld and W. A. Knowles, and the estate of the late Dr. E. F. Bunnell.

L. L. DUNBAR, Dean of the Faculty,  
500 Sutter Street, San Francisco.

OFFICE HOURS: 7 to 8 P. M. only.

---

**N. B.—Boarding.** The expense of living in the city of San Francisco is very reasonable. Good board, with room rent, may now be procured at the low rate of five dollars per week, at a convenient distance from the College building.

There is a Free Public Library in San Francisco, of which students may have full benefit.

Upon arriving in the city, students will immediately register in the Dean's office, at the College building, No. 18 Taylor Street.

# STUDENTS OF THE SESSION OF 1891

## SENIOR CLASS.

Name.	Residence.	Preceptor.
Armstrong, Josephine Wright.	San Francisco, Cal.	Col. of Dentistry, U. C.
Bell, Charles Henry	San Francisco, Cal.	H. G. Young.
Bauer, Charles Franklin	San Francisco, Cal.	J. S. Knowlton.
Burfeind, Wm. Martin Herman	San Francisco, Cal.	C. W. Decker.
Blodgett, John Millard	Millville, Cal.	A. D. Gleaves, D.D.S.
Boyd, Samuel Alexander	San Francisco, Cal.	Col. of Dentistry, U. C.
Couret, Raoul Maximillian	Bronces, Sonora, Mexico	H. L. Couret, D.D.S.
Corwin, Cecil	Oakland, Cal.	G. H. Krichbaum.
Elliott, D. Carter	Holly, Mich.	Col. of Dentistry, U. C.
Frear, Philip Foster	Oakland, Cal.	Col. of Dentistry, U. C.
Griswold, Charles Lawrence	San Francisco, Cal.	W. F. Griswold.
Hatch, Harry Lewis*	San Francisco, Cal.	J. H. Hatch, D.D.S.
Hyde, Charles George	Spanish Ranch, Cal.	Col. of Dentistry, U. C.
Hyde, Edwin Chandler	Oakland, Cal.	L. L. Dunbar, D.D.S.
Jeek, Charles Avan	Grass Valley, Cal.	Col. of Dentistry, U. C.
Martin, William	Oakland, Cal.	J. S. Porter.
Moore, Robert Isaac	San Francisco, Cal.	J. S. Porter.
McCarthy, John Patrick	San Francisco, Cal.	M. J. Dunn, D.D.S.
Millar, Robert Forrester	San Francisco, Cal.	H. G. Young.
Milliken, George Thomas	San Francisco, Cal.	C. W. Richards, D.D.S.
Miles, Albert Dean Elmore	San Francisco, Cal.	J. S. Porter and J. M. Curragh.
Robble, Howard Delos		University of Iowa, Dental Department.
Sturton, Forrest Hoy		Boston Dental College.
Phillips, Frank Harry	San Francisco, Cal.	C. H. Rawson, D.D.S.
Richards, Harry Griffin	San Francisco, Cal.	B. W. Haines, M. D., D.D.S.
Seager, Harold Lawrence	Constantinople, Turkey	F. R. Ledyard.
Saw, Harry Howard	San Francisco, Cal.	C. E. Case, D.D.S.
Sturston, George Washington	Cuffey's Cove, Cal.	E. A. Verrinder, M.D.
Van Orden, George Newins	Oroville, Cal.	L. Van Orden, M.D.
Wadsworth, William Henry	Ukiah, Cal.	W. H. Hodghead, D.D.S. and C. W. Hibbard, D.D.S.
Weyer, Gustavus Adolphus	Modesto, Cal.	T. W. Drullard.

\* Not in attendance.



# JUNIOR CLASS.

Name.	Residence.	Preceptor.
Alger, Edmund J.....	Santa Cruz, Cal.....	J. P. Parker, D.D.S.
Allen, Reginald Heber.....	Oakland, Cal.....	Col. of Dentistry, U. C.
Arroyo, Jorge.....	Guatemala, C. A.....	H. C. Davis, L.D.S. and Chas. Baxton, D.D.S.
Ashworth, Frank Parker.....	San Jose, Cal.....	Frank L. Argall.
Avery, William Nelson.....	Santa Clara, Cal.....	A. M. Barker.
Bennett, Augustus Griffin, Jr.....	San Jose, Cal.....	J. L. Asay, M.D.
Coke, Paul Sterling.....	Marshfield, Or.....	O. E. Smith, Trueman and Steele.
Colestock, Logan Alfred.....	Livermore, Cal.....	L. L. Savage.
Cook, Israel.....	Shelbyville, Ind.....	E. C. Gardner, D.D.S.
Davis, Emille William.....	Sydney, N. S. W.....	Aubrey Davis, L.S.D.
Davis, William Lee.....	N. San Juan, Cal.....	Trueman & Steele.
Derby, Albert Terrill.....	Riverside, Cal.....	E. D. Howe.
Gallwey, James Ambrose*.....	San Francisco, Cal.....	Col. of Dentistry, U. C.
Gibbon, John A.....	San Francisco, Cal.....	J. S. Porter.
Grove, Will Caughlin.....	Oakland, Cal.....	Drs. C. F. & G. W. Ro- dolph.
Halsey, Wilber Hanford.....	Oakland, Cal.....	I. S. Halsey.
Huddy, George Herman.....	Honolulu, H. I.....	Wm. B. McAllister.
Kelly, John Thomas.....	San Francisco, Cal.....	C. W. Decker.
Litchfield, Oscar.....	Sebastopol, Cal.....	J. H. Rankin.
McMurray, Milton.....	Crescent City, Cal.....	Col. of Dentistry, U. C.
Meredith, George Hubbard.....	Smartsville, Cal.....	C. W. Decker.
Mervy, Edward Thomas.....	Berkeley, Cal.....	Wm. Croome, Emerson and Waller.
Mish, Julien Emanuel.....	San Francisco, Cal.....	F. F. Lord, M.D.
Parr, Edward Franklin.....	Chico, Cal.....	D. W. Wasley.
Payne, Clyde Sylvanus*.....	San Francisco, Cal.....	Col. of Dentistry, U. C.
Rees, John Stephen.....	Leesville, Cal.....	A. Cornwall.
Robinson, John*.....	San Francisco, Cal.....	Col. of Dentistry, U. C.
Root, Corydon B.....	San Francisco, Cal.....	H. C. Davis, L.D.S.
Saul, Overton Matthew.....	Petaluma, Cal.....	G. Saul.
Schlott, Ernest Frederick.....	San Francisco, Cal.....	Julius Conradt.
Schumacher, Frederick.....	San Jose, Cal.....	F. K. Ledyard.
Scott, Walter Kendall.....	Redwood City, Cal.....	H. P. Carlton, D.D.S.
Sharp, James Graham.....	San Francisco, Cal.....	L. L. Dunbar, D.D.S.
Suggett, Allen Holman.....	Colusa, Cal.....	W. E. Cook.
Sullivan, Harry Francis.....	Oakland, Cal.....	J. M. Dunn, D.D.S.
Taylor, Robert Lee.....	Crescent Mills, Cal.....	J. N. Blood, D.D.S.
Taylor, William Emmett.....	Oakland, Cal.....	Col. of Dentistry, U. C.
Thomas, Joseph Treleaven.....	Gold Hill, Nev.....	W. O. Cornwall.
Upham, Ulysses*.....	Dixon, Cal.....	F. F. Upham.

\* Not in attendance.



# FRESHMAN CLASS.

Name.	Residence.	Preceptor.
Baird, Edward Ellsworth.....	Lodi, Cal.....	Col. of Dentistry, U. C.
Briciland, Newton Edgington*.....	Shasta, Cal.....	J. S. Porter.
Brooks, Frederick Sheridan.....	San Francisco, Cal.....	Col. of Dentistry, U. C.
Carpenter, Byron Leonard*.....	Westfield, Pa.....	Col. of Dentistry, U. C.
Chavell, William Henry.....	Modesto, Cal.....	Col. of Dentistry, U. C.
Chappell, McCoy.....	Redding, Cal.....	Col. of Dentistry, U. C.
Clazie, Franklin.....	Ontario, Canada.....	Col. of Dentistry, U. C.
Coleman, Ralph Charles.....	San Francisco, Cal.....	Col. of Dentistry, U. C.
Collins, Maurice John.....	Oakland, Cal.....	S. P. Tate.
Deichmiller, Conrad.....	Los Angeles, Cal.....	A. P. Hays.
Graham, Gilbert Fuller.....	Chico, Cal.....	Col. of Dentistry, U. C.
Gray, Robert Frederick.....	San Francisco, Cal.....	Col. of Dentistry, U. C.
Jewell, Walter Simpson.....	Washington, D. C.....	Col. of Dentistry, U. C.
Likens, James William.....	Carson, Nev.....	Dr. S. Southworth.
MacK, William Frederick*.....	East Oakland, Cal.....	G. H. Krichbaum.
Monzon, Jorge Candido.....	Guatemala, C. A.....	E. Maldonado, D.D.S.
O'Rourke, William.....	Oakland, Cal.....	Col. of Dentistry, U. C.
Powell, Henry, Jr.....	Haywards, Cal.....	Col. of Dentistry, U. C.
Powell, James Nicholas.....	Portland, Or.....	J. R. Cardwell and W. H. Saylor, M.D.
Stevens, Henry Gordon.....	Napa, Cal.....	E. M. Porter.
Stratton, Charles C.*.....	San Rafael, Cal.....	Col. of Dentistry, U. C.
Saylor, Walter Judson.....	Oakland, Cal.....	J. S. Porter.
Siegel, Thomas Augustus.....	San Francisco, Cal.....	Col. of Dentistry, U. C.
Siegelman, David John.....	Modesto, Cal.....	J. W. Remington.
Tare, William Henry.....	Boston, Mass.....	Col. of Dentistry, U. C.
Wilcox, Walter Irving.....	Santa Clara, Cal.....	Col. of Dentistry, U. C.
Wood, Charles Custer.....	Modesto, Cal.....	Col. of Dentistry, U. C.

# SPECIAL STUDENT.

Name.	Residence.	Preceptor.
Grambs, George.....	San Francisco, Cal.....	Col. of Dentistry, U. C.

# Summary.

SENIORS.....	31
JUNIORS.....	39
FRESHMEN.....	27
SPECIAL STUDENT.....	1
Total.....	98

## COMMENCEMENT, 1894

---

The Tenth Commencement Exercises of the College of Dentistry of the University of California were held at Odd Fellows' Hall, San Francisco, California, Wednesday, December 23d, at 8 o'clock, P. M.

### ORDER OF EXERCISES.

OVERTURE, "Hungarian,".....*Keler Bela*

MARCH, "California,".....*N. Brandt*

PRAYER, REV. THOMAS C. VAN NESS.

SELECTION, "Robin Hood,".....*De Koven*

ADDRESS ON BEHALF OF THE FACULTY,  
LEANDER VAN ORDEN, JR., M.D.

SELECTION, "Les Huguenots,".....*Meyerbeer*

CONFERRING CERTIFICATES OF GRADUATION,  
PROF. CLARK L. GODDARD, A.M., D.D.S., Chairman of the Faculty.

SPANISH WALTZ, "La Mas Bonita,".....*N. Brandt*

BENEDICTION, REV. THOMAS C. VAN NESS.

## GRADUATES.

### 1882.

Thomas Watson Hall .....	Oakland, California
Charles Wesley Hibbard.....	San Francisco, California
Thomas Morflew.....	San Francisco, California
Henry John Plomteaux.....	Oakland, California
Charles Wesley Richards.....	San Francisco, California
Gustave William Sichel, M. D.....	San Francisco, California
William Henry Stanley.....	San Francisco, California
August Van Crombrughe† .....	San Francisco, California

### 1883.

John Nelson Blood*.....	Greenville, California
Charles Boxton.....	San Francisco, California
Maria Angelina Burch*.....	Pescadero, California
Edward Overton Cochrane.....	San Francisco, California
Russell Hopkins Cool.....	Oakland, California
Milton Francis Gabbs.....	San Francisco, California
William Edmund Price.....	San Francisco, California

### 1884.

George Washington Cool.....	Guatemala, Central America
John Michael Dunn.....	Oakland, California
Archibald Duncan Gleaves.....	Anderson, California
Robert Nicol.....	India
Gustave Carl Rietzke.....	San Francisco, California
William Henry Simmons.....	Oakland, California
Elmer Joseph Weldon.....	Vacaville, California

### 1885.

Henry Sylvester Bettis.....	Boise City, Idaho
George Botsford.....	San Francisco, California
Daniel Barratt Cate.....	Quincy, California
Nathaniel Thomas Coulson.....	San Francisco, California
George Ihmer Drucker.....	San Francisco, California
William Ellis Fitzpatrick.....	San Francisco, California
Valter Robert Henderson.....	Stockton, California
John Adams Douglas Hutton.....	West Berkeley, California
Franklin Pancoast.....	San Francisco, California
Charles Theodore Rodolph.....	Oakland, California
Frederick Judson Saxe, A.M.....	Oakland, California
Joseph Schneider.....	San Salvador, Central America
Henry Sylvester, Jr.....	San Francisco, California

### 1886.

Harry Putnam Carlton .....	San Francisco, California
Lector Ludovic Couret.....	Sonora, Mexico

\* Deceased.

† Name changed to August Van Crom by Superior Court San Francisco, July 22, '89.

Martin Joseph Dunn.....	San Francisco, California
Nicholas Anton Givovich .....	Ragusa, Austria
John Gow Humphrey.....	San Francisco, California
Thomas Harvey Morris.....	San Francisco, California
William Cormack Reith.....	Sacramento, California
Joseph Emil Sand.....	San Francisco, California
Benjamin Franklin Simmons .....	Oakland, California
William Oltman Stuttmeister.....	Redwood City, California
William Grover Sylvester.....	San Francisco, California

**1887.**

Edward Livingston Davis .....	San Jose, California
Joseph Dupuy Hodgen.....	San Francisco, California
Harold McKean Jones .....	Cloverdale, California
Edward Maldonado.....	San Francisco, California
Robert Eugene Payne.....	San Francisco, California
Charles Edgar Post.....	San Francisco, California
Arthur Theodore Regensburger .....	San Francisco, California
George Frederick Rodden.....	San Francisco, California
George Walter Rodolph .....	Oakland, California
Granville Eugene Shuey .....	East Oakland, California
Jennie Martha Simpson.....	San Francisco, California
Otto Frank Westfall.....	San Francisco, California

**1888.**

Ira Hart Chapman.....	Tacoma, Washington
Samuel Alston Hackett.....	Oakland, California
Frank Lewis Hultberg.....	San Francisco, California
Philander McCargar.....	Oakland, California
Joseph Pfister.....	Pinole, California
William George Shankey.....	San Francisco, California
Edward Nelson Short.....	San Francisco, California
Charles Sawtelle Weston.....	Oakland, California

**1889.**

Milton Ross Gambitz.....	San Francisco, California
Benjamin Mitchell Gunzberger.....	San Francisco, California
William Alexander Meyer.....	San Francisco, California
Warren Guice Mobley.....	Oakland, California
Dorr Nash.....	San Jose, California
Andrew John Powell.....	Haywards, California
Edward William Pratt.....	San Francisco, California
Frederick Courtland Sutliff.....	Sacramento, California
Arthur Henry Wallace.....	San Francisco, California

**1890**

Frederick Harrison Albright.....	Red Bluff, California
Gotthard Sigismund Backman .....	San Francisco, California
Frank Drake Burleson.....	Woodland, California
Paul Charles Erhardt.....	San Francisco, California
William T. Heider .....	Oakland, California
Charles Alexis Herrick .....	Jackson, California

Saul Robert Jacobs.....	San Francisco, California
Charles Ashby Litton.....	San Francisco, California
Walter Romain Lovegrove.....	San Francisco, California
George Martin.....	Calcutta, India
Clark Harrison Rawson.....	Jamestown, New York
Richard McCargar.....	San Francisco, California
John Matthew Redmond.....	Santa Rosa, California
David Warren Rulison.....	Reno, Nevada
William Fuller Sharp.....	San Francisco, California
Albert John Sylvester.....	San Francisco, California

1891

Josephine Wright Armstrong.....	San Francisco, California
Charles Franklin Bauer.....	San Francisco, California
Charles Henry Bell.....	San Francisco, California
John Millard Blodgett.....	Madera, California
Cecil Corwin.....	Oakland, California
D. Carter Elliot.....	Martinez, California
Philip Foster Frear.....	Oakland, California
Charles Lawrence Griswold.....	San Francisco, California
Charles George Hyde.....	Merced, California
Edwin Chandler Hyde.....	Corvallis, Oregon
William Martin.....	Calcutta, India
John Patrick McCarthy.....	San Francisco, California
Charles Avan Meek.....	San Francisco, California
Albert Dean Elmore Miles.....	San Francisco, California
Robert Forrester Millar.....	Alameda, California
Robert Isaac Moore.....	San Francisco, California
Howard Delos Noble.....	San Francisco, California
Forrest Hoy Orton.....	St. Paul, Minnesota
Frank Harry Phillips.....	Hollister, California
Harry Griffin Richards.....	San Francisco, California
Harold Lawrence Seager.....	San Francisco, California
Harry Howard Shaw.....	San Francisco, California
George Newins Van Orden.....	San Francisco, California
Gustavus Adolphus Weyer.....	Modesto, California



# UNIVERSITY OF CALIFORNIA.

## ACADEMIC SENATE.

NOTE.—The Faculties of the University, together with the Instructors, constitute by law the Academic Senate.

The names, excepting those of the President and Secretary, are arranged in the order of original accession to membership in the Academic Senate.

- MARTIN KELLOGG, A.M. . . . . PRESIDENT *pro tempore*.  
Bushnell Street, near College Way, Berkeley.  
*Professor of the Latin Language and Literature.*
- JOHN HARMON C. BONTÉ, D.D. . . . . SECRETARY.  
Dwight Way, near Choate Street, Berkeley.  
*Professor of Legal Ethics.*
- JOSEPH LeCONTE, A.M., M.D., LL.D.\* . . . . Bancroft Way, near  
Piedmont Avenue, Berkeley.  
*Professor of Geology and Natural History.*
- FRANK SOULÉ, GRADUATE U. S. MILITARY ACADEMY, WEST POINT.  
960 Oak Street, Oakland.  
*Professor of Civil Engineering and Astronomy.*
- STEPHEN JOHNSON FIELD, LL.D. . . . . Washington, D. C., and  
San Francisco.  
*Honorary Professor of Law.*
- WILLARD BRADLEY RISING, A.M., M.E., PH.D. . . . Corner Chapel  
Street and Allston Way, Berkeley.  
*Professor of Chemistry.*
- GEORGE WOODBURY BUNNELL, A.M. . . . 1955 Telegraph Avenue,  
Oakland.  
*Professor of the Greek Language and Literature.*
- GEORGE DAVIDSON, PH.D., D.Sc. . . . . U. S. Coast and Geodetic  
Survey, San Francisco.  
*Honorary Professor of Geodesy and Astronomy.*
- RICHARD BEVERLY COLE, A.M., M.D., M.R.C.S., Eng. . . . 218 Post  
Street, San Francisco.  
*Professor of Obstetrics and Gynecology.*
- GEORGE CUNNINGHAM EDWARDS, PH.B. . . . 1568 Webster Street,  
Oakland.  
*Associate Professor of Mathematics.*
- ALBIN PUTZKER . . . . . Corner Humbolt Avenue and Parker Street,  
Berkeley.  
*Professor of the German Language and Literature.*

---

\* Absent on leave during the academic year 1891-92.

EUGENE WOLDEMAR HILGARD, PH.D., LL.D. . . . . Bancroft Way,  
near Audubon Street, Berkeley.

*Professor of Agriculture and Agricultural Chemistry, and Director of  
Agricultural Experiment Stations.*

SAMUEL BENEDICT CHRISTY, PH.B. . . . . Piedmont Avenue, near  
Bancroft Way, Berkeley.

*Professor of Mining and Metallurgy.*

FREDERICK SLATE, B.S. . . . . Audubon Street, near Bancroft Way,  
Berkeley.

*Associate Professor of Physics and Instructor in Mechanics.*

FREDERICK GODFREY HESSE . . . . . Corner Broadway and Telegraph  
Avenue, Oakland.

*Professor of Mechanical Engineering.*

BERNARD MOSES, PH.D. . . . . Audubon Street, near University  
Grounds, Berkeley.

*Professor of History and Political Economy.*

WILLIAM CAREY JONES, A.M. . . . . University Avenue, near  
Oxford Street, Berkeley.

*Associate Professor of United States History.*

WILLIAM THEODORE WENZELL, M.D., PHARM. M. . . . . 201 Polk  
Street, San Francisco.

*Professor of Chemistry in the College of Pharmacy.*

ROBERT ARMISTEAD McLEAN, M.D. . . . . 603 Merchant Street,  
San Francisco.

*Professor of Clinical and Operative Surgery; Dean of the Medical Faculty.*

GEORGE AUGUSTUS SHURTLEFF, M.D. . . . . Stockton.

*Emeritus Professor of Mental Diseases and Medical Jurisprudence.*

WILLIAM FLETCHER McNUTT, M.D., L. R. C. S. AND L. R. C. P.  
Corner Sutter and Montgomery Streets, San Francisco.

*Professor of the Principles and Practice of Medicine.*

SERRANNO CLINTON HASTINGS, LL.D. . . . . Phelan Building,  
San Francisco.

*Professor of Comparative Jurisprudence.*

EDMOND O'NEILL, PH.B. . . . . 1403 Chestnut Street, Oakland.

*Assistant Professor of Chemistry.*

EDWARD JAMES WICKSON, A.M. . . . . Corner Bancroft Way and  
Audubon Street, Berkeley.

*Associate Professor of Agriculture, Horticulture and Entomology.*

HANS HERMAN BEHR, M.D. . . . . Academy of Sciences,  
San Francisco.

*Professor of Botany in the College of Pharmacy.*

WILLIAM MARTIN SEARBY . . . . . 859 Market Street, San Francisco.

*Professor of Materia Medica in the College of Pharmacy, and Dean of the  
Pharmaceutical Faculty.*

- WILLIAM EDWIN TAYLOR, M.D.....215 Geary Street,  
San Francisco.  
*Professor of the Principles and Practice of Surgery.*
- CLARK LAMOTTE GODDARD, A.M., D.D.S.....131 Post Street,  
San Francisco.  
*Professor of Orthodontia and Dental Metallurgy.*
- ABRAHAM LEWIS LENGFELD, M.D.....202 Stockton Street,  
San Francisco.  
*Professor of Materia Medica and Medical Chemistry.*
- IRVING STRINGHAM, PH.D.....Piedmont Avenue, facing  
Bancroft Way, Berkeley.  
*Professor of Mathematics, Dean of the Faculty of Letters and of the  
Faculties of Science.*
- EDWARD LEE GREENE, PH.B.....University Avenue, between  
Sherman and Grant Streets, Berkeley.  
*Associate Professor of Botany.*
- CORNELIUS BEACH BRADLEY, A.M.....Bancroft Way, near  
Chapel Street, Berkeley.  
*Associate Professor of the English Language and Literature.*
- WILLIAM BREAKEY LEWITT, M.D.... .605 Laguna Street, San  
Francisco.  
*Professor of Anatomy, College of Dentistry.*
- BENJAMIN RALPH SWAN, M.D.....310 Stockton Street,  
San Francisco.  
*Professor of the Diseases of Children.*
- GEORGE HOLMES HOWISON, LL.D.....Dwight Way, near  
Choate Street, Berkeley.  
*Mills Professor of Intellectual and Moral Philosophy and Civil Polity.*
- LUIS LANE DUNBAR, D.D.S.....500 Sutter Street, San Francisco.  
*Professor of Operative Dentistry and Dental Histology, and  
Dean of the Dental Faculty.*
- MAURICE JAMES SULLIVAN, D.D.S.....30 Post Street,  
San Francisco.  
*Professor of Dental Pathology and Therapeutics.*
- CHARLES WILLIAM SLACK, PH.B., LL.B.....New City Hall,  
San Francisco.  
*Professor of Municipal Law.*
- HERMANN KOWER, C.E.....906 Broadway, Oakland.  
*Assistant Professor of Instrumental Drawing.*
- EDWARD SINGLETON HOLDEN, A.M., LL.D....Mount Hamilton.  
*Director of the Lick Observatory, and Astronomer.*
- GEORGE HERMAN POWERS, A.M., M.D.....215 Geary Street,  
San Francisco.  
*Professor of Ophthalmology and Otology.*

JOACHIM HENRY SENGGER, PH.D. .... 2122 Steiner Street,  
San Francisco.

*Assistant Professor of German.*

WILLIAM WATT KERR, A.M., M.B., C.M. .... 600 Sutter Street,  
San Francisco.

*Professor of Clinical Medicine.*

FELICIEN VICTOR PAGET, BACHELIER ÈS LETTRES, BACHELIER ÈS  
SCIENCES. .... Dwight Way, near Bowditch Street, Berkeley.

*Assistant Professor of the French and Spanish Languages.*

ARNOLD ABRAHAM D'ANCONA, A.B., M.D. .... 405 Montgomery  
Street, San Francisco.

*Professor of Physiology and Microscopy.*

THOMAS RUTHERFORD BACON, A.B. .... Bushnell St., Berkeley.

*Associate Professor of European History.*

ELISHA WILLIAMS MCKINSTRY, LL.D. .... 4 Sutter Street  
San Francisco.

*Professor of Municipal Law.*

WILLIAM DALLAM ARMES, PH.B. .... 560 Fourteenth Street,  
Oakland.

*Instructor in English.*

DOUGLAS WILLIAM MONTGOMERY, M.D. .... 1124 Sutter Street,  
San Francisco.

*Professor of Pathology and Microscopy; Curator of the Medical Department.*

GEORGE MOREY RICHARDSON, PH.D. .... Durant Avenue, near  
Shattuck Avenue, Berkeley.

*Instructor in Latin.*

FRANK GAYLORD HUBBARD, PH.D. .... Ellsworth Street, near  
Allston Way, Berkeley.

*Instructor in English.*

CHARLES MILLS GAYLEY, A.B. .... Bushnell Street, Berkeley.

*Professor of the English Language and Literature.*

JOHN HATFIELD GRAY, JR., B.S. .... Durant Avenue, near Fulton  
Street, Berkeley.

*Instructor in Chemistry.*

MELLEN WOODMAN HASKELL, PH.D. .... Durant Avenue, near  
Shattuck Avenue, Berkeley.

*Assistant Professor of Mathematics.*

ARMIN OTTO LEUSCHNER, A.B. .... University Avenue, near  
Oxford Street, Berkeley.

*Instructor in Mathematics.*

ALEXANDER F. LANGE, A.M. .... University Avenue, near  
Oxford Street, Berkeley.

*Assistant Professor of English.*



- BENJAMIN HARRISON RANDOLPH, FIRST LIEUTENANT, THIRD  
U. S. ARTILLERY.....2029 Encinal Avenue, Alameda.  
*Professor of Military Science and Tactics.*
- ANDREW COWPER LAWSON, A.M., Ph.D..... Dwight Way, near  
Choate Street, Berkeley.  
*Assistant Professor of Mineralogy and Geology.*
- HENRY IRWIN RANDALL, B.S.....Milvia Street, near Berkeley  
Way, Berkeley.  
*Instructor in Civil Engineering.*
- ISAAC FLAGG, Ph.D....Cor. Francisco and Milvia Streets, Berkeley.  
*Associate Professor of Classical Philology.*
- WASHINGTON DODGE, M.D.....1407 Van Ness Avenue,  
San Francisco.  
*Professor of Therapeutics.*
- JOHN MARSHALL WILLIAMSON, M.D..... 906 Market Street,  
San Francisco.  
*Professor of Anatomy.*
- HENRY FREDERICK MEIER.....214-220 Townsend Street,  
San Francisco.  
*Professor of the Theory and Practice of Pharmacy.*
- JEROME JOHN BAPTIST ARGENTI, Ph.G..... 301 Third Street,  
San Francisco.  
*Professor of Microscopy and Pharmacognosy.*
- ROBERT HILLS LOUGHRIDGE, Ph.D..... Bancroft Way, near  
Choate Street, Berkeley.  
*Assistant Professor of Agricultural Geology and Agricultural Chemistry.*
- CHARLES FOSTER DIO HASTINGS.....120 Phelan Block,  
San Francisco.  
*Dean of the Faculty of Law.*
- CHARLES WILLIAM WOODWORTH, M.S.....Lincoln Street, near  
Shattuck Avenue, Berkeley.  
*Assistant in Entomology.*
- FELIX LENGFELD, Ph.D.....University Avenue, near Shattuck  
Avenue, Berkeley.  
*Instructor in Chemistry.*
- WALTER EDMUND MAGEE ...Ninth University Cottage, Berkeley.  
*Instructor in Physical Culture.*
- LOUIS PAPARELLI, Lic. Ag .....Seventh University Cottage,  
Berkeley.  
*Instructor in Viticulture and Olive Culture.*
- WILLIAM JAMES RAYMOND, B.S.....626 Thirteenth Street,  
Oakland.  
*Instructor in Physics.*



WILLIAM EMERSON RITTER, M.A.....Durant Avenue, near  
Fulton Street, Berkeley.

*Instructor in Biological Laboratory.*

SAMUEL DAVID HUNTINGTON, A.B... Russ House, San Francisco.

*Instructor in French.*

FRANK GELETT BURGESS, S.B... 1407 Jones Street, San Francisco.

*Instructor in Topographical and Free-hand Drawing.*

LEON JOSIAH RICHARDSON, A.B... Shattuck Avenue, near Center  
Street, Berkeley.

*Assistant in Latin.*

LEON MONTAGUE HALL.....Dwight Way, near Ellsworth Street,  
Berkeley.

*Assistant in Mechanics.*

MARSHALL AVERY HOWE, Ph.B... Channing Way, near Ellsworth  
Street, Berkeley.

*Instructor in Cryptogamic Botany.*

JOSEPH CUMMINGS ROWELL, A.B.....2207 West Street,  
Oakland.

*Librarian of the University.*

—— ———.....Assistant Professor of History and Political Science.

# UNIVERSITY OF CALIFORNIA.

---

## Departments at Berkeley,

INCLUDING

- |   |                                       |
|---|---------------------------------------|
| 1. COLLEGE OF LETTERS.                          | 2. COLLEGE OF AGRICULTURE.            |
| (a) CLASSICAL COURSE.                           | 3. COLLEGE OF MECHANICS.              |
| (b) LITERARY COURSE.                            | 4. COLLEGE OF MINING.                 |
| (c) COURSE IN LETTERS AND<br>POLITICAL SCIENCE. | 5. COLLEGE OF CIVIL ENGI-<br>NEERING. |
| 6. COLLEGE OF CHEMISTRY.                        |                                       |
- 

## THE ACADEMIC COUNCIL.

---

NOTE.—The Academic Council is composed of all the professors and instructors in the College of Letters and the Colleges of Science.

The names, excepting that of the Chairman, are divided into groups of professors, associate professors, assistant professors, and instructors, and arranged alphabetically in each group.

---

—————, President of the University, CHAIRMAN.

MARTIN KELLOGG, Professor of the Latin Language and Literature,  
CHAIRMAN *pro tempore*.

---

GEORGE WOODBURY BUNNELL, Professor of the Greek Language  
and Literature.

SAMUEL B. CHRISTY, Professor of Mining and Metallurgy.

CHARLES M. GAYLEY, Professor of the English Language and  
Literature.

FREDERICK G. HESSE, Professor of Mechanical Engineering.

EUGENE W. HILGARD, Professor of Agriculture and Agricultural  
Chemistry.

GEORGE H. HOWISON, Mills Professor of Intellectual and Moral  
Philosophy and Civil Polity.

\*JOSEPH LECONTE, Professor of Geology and Natural History.

BERNARD MOSES, Professor of History and Political Economy.

ALBIN PUTZKER, Professor of the German Language and Literature.

BENJAMIN H. RANDOLPH, Professor of Military Science and  
Tactics.

WILLARD B. RISING, Professor of Chemistry.

FRANK SOULÉ, Professor of Civil Engineering and Astronomy.

IRVING STRINGHAM, Professor of Mathematics.

---

\* Absent on leave during the academic year 1891-2.

THOMAS R. BACON, Associate Professor of European History.

CORNELIUS B. BRADLEY, Associate Professor of the English Language and Literature.

GEORGE C. EDWARDS, Associate Professor of Mathematics.

ISAAC FLAGG, Associate Professor of Classical Philology.

EDWARD L. GREENE, Associate Professor of Botany.

WM. CAREY JONES, Associate Professor of United States History.

FÉLICIEN V. PAGET, Associate Professor of French and Spanish.

FREDERICK SLATE, Associate Professor of Physics and Instructor in Mechanics.

EDWARD J. WICKSON, Associate Professor of Agriculture, Horticulture and Entomology.

---

MELLEN W. HASKELL, Assistant Professor of Mathematics.

HERMANN KOWER, Assistant Professor of Instrumental Drawing.

ALEXANDER F. LANGE, Assistant Professor of English.

ANDREW C. LAWSON, Assistant Professor of Mineralogy and Geology.

R. H. LOUGHRIDGE, Assistant Professor of Agricultural Geology and Agricultural Chemistry.

EDMOND O'NEILL, Assistant Professor of Chemistry.

J. HENRY SENDER, Assistant Professor of German.

---

WILLIAM D. ARMES, Instructor in English.

F. G. BURGESS, Instructor in Topographical and Free-hand Drawing.

JOHN H. GRAY, JR., Instructor in Chemistry.

FRANK G. HUBBARD, Instructor in English.

S. D. HUNTINGTON, Instructor in French and Spanish.

FELIX LENGFELD, Instructor in Chemistry.

ARMIN O. LEUSCHNER, Instructor in Mathematics.

W. E. MAGEE, Instructor in Physical Culture.

L. PAPARELLI, Instructor in Viticulture and Olive Culture.

HENRY I. RANDALL, Instructor in Civil Engineering.

W. J. RAYMOND, Instructor in Physics.

GEORGE M. RICHARDSON, Instructor in Latin.

W. E. RITTER, Instructor in the Biological Laboratory.

C. W. WOODWORTH, Assistant in Entomology.

---

JAMES SUTTON, Recorder of the Faculties, SECRETARY.

# UNIVERSITY OF CALIFORNIA.

## Medical Department.

---

### FACULTY.

---

MARTIN KELLOGG, A.M., President *pro tem.* of the Academic Senate.

---

G. A. SHURTLEFF, M.D., Emeritus Professor of Mental Diseases and Medical Jurisprudence.

---

R. BEVERLY COLE, A. M., M. D., M. R. C. S., Eng., Professor of Obstetrics and Gynecology.

W. F. McNUTT, M.D., M.R.C.P., Edin., etc., Professor of Principles and Practice of Medicine.

ROBERT A. McLEAN, M.D., Professor of Clinical and Operative Surgery, Dean.

W. E. TAYLOR, M.D., Professor of Principles and Practice of Surgery.

A. L. LENGFELD, M.D., Professor of Materia Medica and Medical Chemistry.

BENJ. R. SWAN, M.D., Professor of Diseases of Children.

GEORGE H. POWERS, A.M., M.D., Professor of Ophthalmology and Otology.

WM. WATT KERR, A.M., M.B., C.M., Professor of Clinical Medicine.

ARNOLD A. D'ANCONA, A.B., M.D., Professor of Physiology.

DOUGLAS W. MONTGOMERY, M.D., Professor of Pathology and Histology.

WASHINGTON DODGE, M.D., Professor of Therapeutics.

JOHN M. WILLIAMSON, M.D., Professor of Anatomy.

---

GEO. H. F. NUTTALL, M.D., Ph.D., (Göttingen,) Special Lecturer on Bacteriology.

JOHN W. ROBERTSON, A. B., M. D., Lecturer on Nervous and Mental Diseases.

FELIX LENGFELD, Ph.G., Ph.D., Lecturer on Chemistry.

GEO. F. SHIELS, M.D., F.R.C.S.E., Lecturer on Hygiene and Medical Jurisprudence.

CHAS. A. VON HOFFMAN, M.D., Lecturer on Gynecology.

DEMONSTRATORS AND ASSISTANTS.

---

J. HENRY BARBAT, Ph.D., M.D., Demonstrator of Anatomy.

H. N. WINTON, M.D., Assistant to the Chair of Materia Medica and Medical Chemistry.

SAM. P. TUGGLE, M.D., Assistant Demonstrator of Anatomy.

W. E. HOPKINS, M.D., U.S.A., Assistant to the Chair of Ophthalmology and Otology.

JOHN C. SPENCER, A.B., M.D., Assistant to the Chair of Pathology and Histology.

CAMPBELL FORD, M.D., Assistant to the Chair of Physiology.

JOHN M. SIMS, M.D., Assistant Demonstrator of Anatomy.

---

COLLEGE DISPENSARY STAFF.

---

*Medicine—* WASHINGTON DODGE, M.D.  
F. W. D'EVELYN, M.B., C.M.

*Surgery—* JOHN F. MORSE, M.D.  
JOHN M. WILLIAMSON, M.D.

*Ophthalmology and Otology—*  
W. E. HOPKINS, M.D., U.S.A.

*Gynecology—* CHAS. A. VON HOFFMAN, M.D.

*Cutaneous and Venereal Diseases—*  
DOUGLAS W. MONTGOMERY, M.D.

*Apothecary—* J. J. KEEFE, Ph.G.

---

The Preliminary Term begins February 29th.

The Regular Term begins June 1st and ends November 30th.

Graduates of Dental Colleges in good standing are admitted to the second class without examination.

ROBERT A. McLEAN, M. D., Dean,  
603 Merchant Street, corner of Montgomery,  
San Francisco, Cal.



# UNIVERSITY OF CALIFORNIA.

## Department of Pharmacy.

---

### CALIFORNIA COLLEGE OF PHARMACY.

#### Faculty.

- MARTIN KELLOGG, A.M., Acting President University of California.  
WILLIAM T. WENZELL, M.D., Ph.G., Ph.M., Professor of Chemistry  
and Director of the Laboratory.  
HERMANN H. BEHR, M.D., Professor of Botany.  
HENRY F. MEIER, Professor of Pharmacy.  
JEROME J. B. ARGENTI, Ph.G., Professor of Microscopy and Pharmacognosy.  
WILLIAM M. SEARBY, Ph.C., Professor of Materia Medica, and Dean.  
F. T. GREEN, Ph.G., Instructor in Chemistry.  
JOSEPHINE E. BARBAT, Ph.G., Instructor in Botany.  
H. E. D. BESTHORN, Ph.G., Instructor in Pharmacy.  
C. A. SEIFERT, Ph.G., Instructor in Materia Medica.
- 

This College is now equipped with every requisite for teaching the various branches pertaining to Pharmacy. In addition to its Materia Medica Museum, Analytical and Pharmaceutical Laboratory, there was added last year a Microscopical Department, which will be enlarged for the ensuing term by the purchase of more microscopes and appliances.

The Requirements for Admission being set at a standard equal only to that of youths who have been graduated from the Grammar Schools of this State, exclude no one who has a prospect of becoming a moderately proficient student. All who have not certificates entitling them to enter the High Schools, or credentials of equal value, are examined in the ordinary branches of an English education.

The entire curriculum consists of two courses of six months each, from April 1st to October 1st, in each year, with a Laboratory course of thirty days actual work between February 1st and April 1st of the second year.

The Lectures and Demonstrations are delivered in Chemistry, Botany, Materia Medica, Microscopy and Pharmacy, from April 1st to October 1st.

The Laboratory, under charge of Prof. Wenzell and an assistant, is in operation from February 1st to April 1st for the compulsory work of the College. Only the extra Laboratory instruction is given during the lecture term.

Two important changes have been made by the Trustees, which will be inaugurated with the Session of 1892. First: The Lectures, Laboratory work and Quiz Instruction will be given in the forenoon of

each day (except Sunday) from 9 to 12, instead of being largely in the evenings as heretofore. Secondly: The Laboratory work will be done between the Lecture Sessions, those students only who have passed the Junior examinations entering the Laboratory, in February, and completing this part of the course before the Lectures begin. This will give more time for study in every department, and will be greatly to the advantage of the student.

The Alumni Review (Quiz) Classes are conducted by four Instructors, who are all graduates of our own College, whose instructions are of the greatest value and assistance to the students.

In every respect this College aims to keep abreast of the leading Colleges of Pharmacy in the country, adopting the most approved methods of teaching, and keeping pace with the rapid advances of pharmaceutical science.

Students from other Colleges of Pharmacy who have attended the Junior course, have passed the examinations at the close of the term, and present certificates that they are entitled to enter the Senior class of the college they have attended, are admitted to the Senior class of this College.

**Pharmacists Entering Medical Colleges.**—Graduates in Pharmacy of this College are permitted to present themselves for examination for the degree of Doctor of Medicine in the Medical Department of the University of California and in the Cooper Medical College, after attending either of these schools two years, instead of three, as required of other students. The fees have also been reduced in like proportion to our graduates. This generous concession is a gratifying evidence of the value of pharmaceutical instruction, and should not be overlooked by young men who design ultimately to make the practice of medicine their profession.

Graduates of such Medical Colleges as are recognized by the American Medical Association will be permitted to present themselves for examination for the degree, after one year's attendance at this College, provided they have complied with all other conditions for graduation.

**Three Prizes** are bestowed in each session.

Assistants seeking situations, and employers wanting clerks, can register their names with the Dean. Students may have their mail matter addressed in care of the College.

The Session of 1892 begins as follows: **LABORATORY**, for Senior students only, Monday, February 1st. **LECTURE TERM**, for Juniors and Seniors, Monday, April 4th. **PRELIMINARY EXAMINATION** for Matriculation, Friday, April 1st, at 9 A. M.

For Prospectus, Terms and further information, address

W. M. SEARBY,

*Dean of the Faculty,*

859 Market St., San Francisco.









# COLLEGE OF DENTISTRY

OF THE

## UNIVERSITY OF CALIFORNIA



No. 18 TAYLOR STREET, COR. MARKET

## TWELFTH SESSION

Commencing September 4, 1893, and Ending May 31, 1894

SAN FRANCISCO

C. A. MURDOCK & Co., PRINTERS

1893



# ANNOUNCEMENT

OF THE

## COLLEGE OF DENTISTRY

THE LIBRARY OF THE

OF THE

FEB 26 1931

UNIVERSITY OF ILLINOIS.

## UNIVERSITY OF CALIFORNIA

FOR ITS

### TWELFTH SESSION

Commencing September 4, 1893, and Ending May 31, 1894

---

*N. B.—Those who wish to receive the Announcement are requested to forward their  
Names and Addresses to the Dean*

---

SAN FRANCISCO :  
C. A. MURDOCK & Co., PRINTERS  
1893.

# CONTENTS.

---

	PAGE
OFFICE DIRECTORY	3
BOARD OF REGENTS	4
FACULTY	5
ANNOUNCEMENT	7
SCHEDULE OF STUDY	10
REQUIREMENTS FOR ADMISSION	13
REQUIREMENTS FOR GRADUATION	15
FEES	16
TEXT BOOKS	16
OUTLINE OF THE COURSE OF STUDY	18
LIST OF STUDENTS	26
COMMENCEMENT EXERCISES	29
LIST OF GRADUATES	30
ACADEMIC SENATE	34
LITERARY AND SCIENTIFIC DEPARTMENTS	41
MEDICAL DEPARTMENT	43
PHARMACEUTICAL DEPARTMENT	45
POST-GRADUATE MEDICAL DEPARTMENT	48

## OFFICE DIRECTORY.

---

### IN BERKELEY.

The office of the PRESIDENT is Room No. 20, *North Hall*.

The office of the DEAN is Room No. 32, *North Hall*.

The office of the RECORDER is Room No. 21, *North Hall*.

The office of the SECRETARY and office of the BOARD OF REGENTS is in *South Hall*.

The office of the LAND AGENT is in *South Hall*.

---

### AT MT. HAMILTON.

The address of the DIRECTOR OF THE LICK OBSERVATORY is Lick Observatory, Mt. Hamilton, Santa Clara County, California.

---

### IN SAN FRANCISCO.

The office of the REGISTRAR OF THE COLLEGE OF LAW is No. 230 Montgomery Street, Room 15.

Lectures in the COLLEGE OF LAW are delivered in the Assembly Room of the Society of Pioneers, No. 808 Montgomery Street.

The office of the DEAN OF THE MEDICAL FACULTY is No. 305 Kearny Street.

The COLLEGE OF MEDICINE is situated on Stockton Street, between Chestnut and Francisco, in Toland Hall.

The Medical and Surgical Clinics of the COLLEGE OF MEDICINE are held at the City and County Hospital, Twenty-second Street and Potrero Avenue.

The Dispensary Clinics of the COLLEGE OF MEDICINE are held in Toland Hall.

The office of the DEAN OF THE DENTAL FACULTY is No. 500 Sutter Street.

Lectures in the COLLEGE OF DENTISTRY are delivered in the College Building, No. 18 Taylor Street, corner of Market.

The office of the DEAN OF THE COLLEGE OF PHARMACY is No. 400 Sutter Street.

The COLLEGE OF PHARMACY is situated at No. 113 Fulton Street, between Polk Street and Van Ness Avenue.

The office of the BOARD OF REGENTS is in the Hopkins Art Building, corner of Mason and California Streets.

The office of the TREASURER OF THE BOARD OF REGENTS is No. 310 Sansome Street.



# UNIVERSITY OF CALIFORNIA.

## BOARD OF REGENTS.

### Ex-Officio Regents.

HIS EXCELLENCY HENRY H. MARKHAM . . . . .	Sacramento
<i>Governor, ex-officio President of the Board.</i>	
HIS HONOR JOHN BURKE REDDICK . . . . .	San Andreas
<i>Lieutenant-Governor.</i>	
HON. FRANK LESLIE COOMBS . . . . .	Napa
<i>Speaker of the Assembly.</i>	
HON. JAMES WRIGHT ANDERSON . . . . .	Sacramento
<i>State Superintendent of Public Instruction.</i>	
HON. FREDERICK COX . . . . .	Sacramento
<i>President of the State Agricultural Society.</i>	
IRWIN C. STUMP, ESQ. . . . .	309 Montgomery Street, San Francisco
<i>President of the Mechanics' Institute.</i>	
MARTIN KELLOGG, A.M., LL.D. . . . .	Berkeley
<i>President of the University.</i>	

### Appointed Regents \*

NAME.	ADDRESS.	TERM EXPIRES.
REV. HORATIO STEBBINS, D.D. . . . .	1609 Larkin St., S. F. . . . .	1894
HON. J. WEST MARTIN . . . . .	Union Savings Bank, Oakland . . . . .	1898
ANDREW S. HALLIDIE, ESQ. . . . .	9 Fremont St., S. F. . . . .	1908
HON. WILLIAM T. WALLACE . . . . .	799 Van Ness Ave., S. F. . . . .	1902
JAMES A. WAYMIRE . . . . .	Alameda . . . . .	1908
J. F. HOUGHTON, ESQ. . . . .	Palace Hotel, S. F. . . . .	1904
HON. TIMOTHY GUY PHELPS . . . . .	Custom House, S. F. . . . .	1896
ISAIAS WILLIAM HELLMAN, ESQ. . . . .	Nevada Bank, S. F. . . . .	1902
GEORGE THOMAS MARVE, JR., LL.B. . . . .	234 Montgomery St., S. F. . . . .	1898
ARTHUR RODGERS, A.B., Ph.B. . . . .	309 Montgomery St., S. F. . . . .	1906
GEORGE JENNINGS AINSWORTH, Ph.B. . . . .	Redondo . . . . .	1900
HON. HENRY S. FOOTE . . . . .	305 Larkin St., S. F. . . . .	1900
ALBERT MILLER, ESQ. . . . .	532 California St., S. F. . . . .	1906
COLUMBUS BARTLETT, ESQ. . . . .	14 Sansome St., S. F. . . . .	1896
CHARLES FREDERICK CROCKER, ESQ. . . . .	Cor. Fourth and Town- send Sts., S. F. . . . .	1904
CHESTER ROWELL, M.D. . . . .	Fresno . . . . .	1894
J. H. C. BONTÉ, D.D., Secretary . . Berkeley.		

Regular meetings of the Board of Regents are held thirteen times a year, viz.: In San Francisco, on the second Tuesday in each month; in Berkeley, on the day preceding Commencement in the College of Letters and the Colleges of Science.

\* In the order of original appointment.

# UNIVERSITY OF CALIFORNIA.

---

## COLLEGE OF DENTISTRY.

DONOHUE BUILDING, CORNER OF MARKET AND TAYLOR STREETS,  
SAN FRANCISCO.

---

### FACULTY.

MARTIN KELLOGG, A.M., LL.D., President of the University, and  
*ex-officio* President of the Faculty.

JOSEPH LeCONTE, M.D., LL.D., Honorary Professor of Biology.

W. E. TAYLOR, M.D., Emeritus Professor of Surgery.

C. L. GODDARD, A.M., D.D.S., Professor of Orthodontia and Dental  
Metallurgy.

L. L. DUNBAR, D.D.S., Dean, and Professor of Operative Dentistry  
and Dental Histology.

MAURICE J. SULLIVAN, D.D.S., Professor of Dental Pathology and  
Therapeutics.

WILLIAM B. LEWITT, M.D., Professor of the Principles and Prac-  
tice of Surgery.

A. L. LENGFELD, M.D., Professor of Materia Medica and Chemistry.

J. M. WILLIAMSON, M.D., Professor of Anatomy.

A. A. D'ANCONA, A.B., M.D., Professor of Physiology.

---

### LECTURERS, DEMONSTRATORS AND ASSISTANTS.

CHARLES BOXTON, D.D.S., Lecturer on Mechanical Dentistry.

J. D. HODGEN, D.D.S., Demonstrator of Operative Dentistry and  
Superintendent of Infirmary.

HARRY P. CARLTON, D.D.S., Instructor in Operative Technic.

PAUL C. ERHARDT, D.D.S., Demonstrator of Operative Dentistry,  
and Assistant Superintendent.

CHARLES BOXTON, D.D.S., Instructor in Mechanical Technic.

ALBERT T. DERBY, D.D.S., Demonstrator of Mechanical Dentistry.

W. F. SHARP, D.D.S., D.M.D., Instructor in Anæsthesia.

F. O. JACOBS, Instructor in Microscopic Technic.

CHAS. E. POST, D.D.S., Demonstrator of Mechanical Dentistry.

**Lecturers, Demonstrators and Assistants—Continued.**

- HAROLD L. SEAGER, D.D.S., Assistant Demonstrator of Mechanical and Operative Technic.  
 JOHN H. BARBAT, PH.G., M.D., Demonstrator of Anatomy.  
 O. W. JONES, M.D., Assistant Demonstrator of Anatomy.  
 J. D. HODGEN, D.D.S., Assistant in Metallurgy.  
 H. D. NOBLE, D.D.S., Demonstrator of Orthodontia Technic.  
 A. AUCHIE CUNNINGHAM, F.C.S., F. I. Inst., Assistant to the Chair of Chemistry.

**CLINICAL INSTRUCTORS.**

- J. L. ASAY, M.D. . . . . San Jose  
 F. W. BLISS, D.D.S. . . . . Santa Cruz  
 GEO. H. CHANCE, D.D.S. . . . . Portland, Oregon  
 H. C. DAVIS, L.D.S. . . . . San Francisco  
 WARREN DECROW . . . . . San Jose  
 A. O. HOOKER . . . . . San Jose  
 W. B. KINGSBURY . . . . . Santa Clara  
 H. E. KNOX, D.D.S. . . . . Oakland  
 W. F. LEWIS . . . . . Oakland  
 J. P. PARKER, D.D.S. . . . . Santa Cruz  
 JOS. M. PORTER, D.D.S. . . . . San Francisco  
 W. E. PRICE, D.D.S. . . . . San Francisco  
 F. J. SAXE, D.D.S. . . . . Oakland  
 WM. B. SHERMAN, D.D.S. . . . . San Francisco  
 MAX SICHEL . . . . . San Francisco  
 E. L. TOWNSEND, D.D.S. . . . . Los Angeles  
 L. VAN ORDEN, M.D. . . . . San Francisco  
 WILLIAM WOOD . . . . . Sacramento

L. L. DUNBAR, Dean,  
 No. 500 Sutter Street, San Francisco.

## TWELFTH SESSION.

1893-94.

---

With the opening of the 12th Session, on September 4th, 1893, the College of Dentistry of the University of California begins its new arrangement of holding winter instead of summer sessions, thus conforming with Eastern schools in the time of opening, which for obvious reasons should be uniform throughout the country. To bring about this change has caused much inconvenience, both to ourselves and our students. Its final accomplishment is to be hailed with satisfaction, in that it has been done without serious interruption to our regular work.

The increased attendance upon our term just closed and the character of our matriculates, is an evidence of the appreciation of our standard of requirements and curriculum.

Many new features have been added to the course, and the aim of the Faculty has been to make it as complete as possible.

Being remote from that element so damaging to higher standards in technical education, "competition," we are enabled to fix and maintain a high standard of entrance examinations, impartially conducted, and for some years have held two entrance examinations only, on fixed dates, conducted by a competent educator, who is selected annually by the Faculty for this purpose. The standard of these examinations has been advanced slightly each year, and every effort is made to select the best material possible for our classes.

The graded course of instruction adopted in 1891 is most satisfactory in its results. More time is given to technical work than heretofore, and the effect of systematic employment of time upon the *morale* of students is gratifying.

Our new College building is admirably situated for convenient access, occupying a prominent corner upon the main thoroughfare of the city, contiguous to all lines of cars, direct or by transfer.

The supply of Clinic material has always been abundant, and, even in our former obscure location, more than could be served.



With a central location our dispensary practice has more than doubled. The College is provided with a commodious operating room, furnished with thirty improved chairs, with brackets, lockers and stands for each, and abundantly lighted.

The Dental laboratories, of which there are two, are on the same floor, immediately adjoining the operating room, access to which is had in two ways. Everything necessary to a complete demonstration of modern prosthetic methods will be here found. The Chemical and Metallurgical laboratory is a separate feature, and complete in every detail.

There will be a full laboratory course in Histology, and work with the Microscope, under the direction of Dr. F. O. Jacobs, the Instructor in Microscopic Technic. Dr. Jacobs is well known as an expert in this branch, having given especial attention for years to the preparation of specimens for the Microscope. For this purpose a class room and laboratory is provided, with all the requisites for instruction, including fifteen superior Microscopes.

The lecture room is commodious, and capable of seating two hundred persons. There is also provided a library and reading room, hat and coat room, toilet rooms for both sexes, a comfortable waiting room for the dispensary, and other rooms for Faculty use. Access to the rooms is had by elevator and stairway from No. 18 Taylor Street, and exit may be made in this way, and also by means of an elevator and stairway on the Market-street side.

All the lectures of the department will be delivered in the College lecture room, but the work in Practical Anatomy will be performed under the superintendence of the Demonstrator of Anatomy, at the College of Medicine, Stockton Street, between Chestnut and Francisco, where a commodious dissecting room is especially provided for dental students under their own Demonstrators.

Although a department of the State University, no financial aid or support has ever been given the College of Dentistry by the State; it is, therefore, obliged to depend upon the fees of students for providing necessary equipment and maintenance. It is fondly hoped, however, that all the professional colleges of the University will, at no distant day, be brought together under one roof, or in a cluster of buildings prepared for their accommodation, and be sufficiently endowed to make them what was originally



intended, viz: schools where our growing youth may be thoroughly equipped for some specific life-work at a minimum cost. An effort was made at the recent session of the Legislature to secure the necessary appropriation for this purpose, which was generously met, but failed through lack of Executive approval.

While the undergraduate departments of the University are clustered at Berkeley, the professional colleges are, for convenience of clinical study, conducted wholly in San Francisco. For this reason it is but right that they should be properly housed.

There are seven Professors in the College, besides a corps of able and efficient special lecturers and demonstrators. The Professors will lecture each week, according to schedule of instruction published in this announcement. Wednesday afternoon of each week will be set apart, as heretofore, for Clinical Instructors, and two or more are on the schedule for each week during the term.

The Dental laboratory is furnished with benches, lathes, furnaces for melting, forge, rolling mill, continuous gum furnaces, and all other requisites for thorough work. Each student is required to furnish his own instruments and tools, and will be provided with a separate drawer in which they can be securely locked. Those who have instruments and laboratory tools and appliances should bring them; those who have not are advised to defer purchasing until they arrive. Lists of instruments and appliances requisite will be furnished by the Superintendent. During the hours devoted to Operative or Mechanical Dentistry, competent Demonstrators will be present to assist the students in their operations. The Superintendent of the Infirmary will receive and assign patients to students, and will have general supervision of the Infirmary.

With the Session of 1892 this college enforced the rule of the National Association of Dental Faculties, as per resolution adopted at their annual meeting, held August 5th, 1889, viz: "That all Colleges of the Association require an attendance upon three full regular courses in separate years before graduation."

# SCHEDULE OF STUDY.

*Session of 1893-94—Term commences September 4th, 1893, and closes May 31st, 1894.*

## Order of Lectures and Clinics.

### FRESHMAN YEAR.

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.
9 A. M. to 11 A. M.	LABORATORY.	CHEMICAL LABORATORY.	LABORATORY.	CHEMICAL LABORATORY.	LABORATORY.
11 A. M. to 12 M.	LECTURE, Chemistry, Prof. LENGFELD.	OPERATIVE TECHNIC.		OPERATIVE TECHNIC.	LECTURE, Chemistry, Prof. LENGFELD.
1 P. M. to 3 P. M.	LABORATORY.	LABORATORY.	CLINICAL INSTRUCTORS.	LABORATORY.	LABORATORY.
3 P. M. to 4 P. M.	LECTURE, Physiology, Prof. D'ANCONA.				LECTURE, Physiology, Prof. D'ANCONA.
4 P. M. to 5 P. M.	LECTURE, Anatomy, Prof. WILLIAMSON.	LECTURE, Mechanical Dentistry, Dr. BOXTON.	DISSECTING.	LECTURE, Mechanical Dentistry, Dr. BOXTON.	LECTURE, Anatomy, Prof. WILLIAMSON.
SATURDAY, 9 A. M. TO 12 M.					
LABORATORY CLINICS OR SURGICAL CLINICS AT CITY AND COUNTY HOSPITAL.					

Mondays and Fridays, from 9 to 11 A. M., Instruction in Freshman Laboratory, by Dr. Seager.

Tuesdays and Thursdays, from 11 A. M. to 12 M., Operative Technic, by Dr. Carlton.

ORDER OF LECTURES AND CLINICS — *Continued.*

JUNIOR YEAR.

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.
9 A. M. to 11 A. M.	CLINIC and Pathology, Prof. SULLIVAN.	CLINIC.	CLINIC.	CLINIC.	CLINIC.
11 A. M. to 12 M.					LECTURE, Chemistry, Prof. LENGFELD.
1 P. M. to 3 P. M.	CLINIC.	CLINIC.	CLINICAL INSTRUCTORS, 1 to 3.	CLINIC.	CLINIC.
3 P. M. to 4 P. M.	LECTURE, Physiology, Prof. D'ANCONA.		LECTURE, Dental Metal- lurgy and Orthodontia, Prof. GODDARD.		LECTURE, Physiology, Prof. D'ANCONA.
4 P. M. to 5 P. M.	LECTURE, Anatomy, Prof. WILLIAMSON.	LECTURE, Mechanical Dentistry, Dr. BOXTON.	LECTURE, Mechanical Dentistry, Dr. BOXTON.	LECTURE, Anatomy, Prof. WILLIAMSON.	
5 P. M. to 6 P. M.	LECTURE, Operative Den- tistry, Prof. DUNBAR.	DISSECTING.	LECTURE, Pathology and Therapeutics. Prof. SULLIVAN.		LECTURE, Operative Den- tistry, Prof. DUNBAR.

SATURDAY, 9 A. M. TO 12 M.

OPERATIVE CLINICS AND HOSPITAL CLINICS IN SURGERY.

Tuesday and Thursday, from 9 to 10 A. M., Orthodontia Technic—  
Dr. H. D. Noble.

Tuesday and Thursday, at 1 P. M., Microscopic Technic—Dr.  
Jacobs. In class groups to be arranged.

ORDER OF LECTURES AND CLINICS — *Continued.*

SENIOR YEAR.

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.
9 A. M. to 11 A. M.	CLINIC, Pathology and Therapeutics, Prof. SULLIVAN.	CLINIC.	CLINIC.	CLINIC.	CLINIC.
11 A. M. to 12 M.			LECTURE, Surgery, Prof. LEWITT.		
1 P. M. to 3 P. M.	CLINIC.	CLINIC.	CLINICAL INSTRUCTORS, 1 to 3.	CLINIC.	CLINIC.
3 P. M. to 4 P. M.			LECTURE, Dental Metallurgy and Orthodontia, Prof. GODDARD.		
4 P. M. to 5 P. M.					
5 P. M. to 6 P. M.	LECTURE, Operative Den- tistry, Prof. DUNBAR.	Practical Metallurgy, Dr. HODGEN.	LECTURE, Pathology and Therapeutics, Prof. SULLIVAN.		LECTURE, Operative Den- tistry, Prof. DUNBAR.

SATURDAY, FROM 9 A. M. TO 12 M.

OPERATIVE CLINICS AND HOSPITAL CLINICS IN SURGERY.

Wednesday, at 3 P. M., Surgical Clinic by Prof. W. B. Lewitt, and Instruction in Anæsthesia by Dr. W. F. Sharp.

## REQUIREMENTS FOR ADMISSION.

Every candidate for admission must be eighteen years of age, must present to the Faculty satisfactory evidence of a good moral character, and must be examined as to his previous education and fitness to appreciate the technical study of Dentistry. The examinations will be chiefly in writing, and will embrace the following subjects, viz:

1. Arithmetic.
2. Geography.
3. English Grammar and Composition.
4. United States History.
5. Natural Philosophy. (Refer to Avery's Natural Philosophy, Peck's Ganot's Introductory Course in Natural Philosophy, or an equivalent.)
6. Elementary Chemistry. (Refer to Meade's Chemical Primer, Elliott and Storer's Chemistry, Avery's Chemistry, or an equivalent.)
7. Latin. Beginning with this session applicants will be examined in Latin. (Refer to Smith's Principia Latina, Robinson's Latin Grammar of Pharmacy and Medicine, or an equivalent.)

Those who have never studied Latin will be allowed to take a condition in the subject, which must be removed before the examination for promotion. A class in Latin will be formed for those who may be conditioned.

Applicants intending to take this examination are advised to review their studies before doing so. Conditions imposed at the entrance examinations must be removed before the end of the term.

No matriculation examination will be required of those who have passed the entrance examination of the University of California, or of any other recognized College or University, nor of graduates of any recognized academy or high school, nor of those holding teachers' certificates.

In order to secure a release from this examination, the candidate must present his diploma or certificate of examination or graduation.



Graduates and Undergraduates of Medicine desiring to qualify themselves for the practice of Dentistry, will be governed by the following rules of the National Association of Dental Faculties:

*Resolved*, That after the Session of 1890-91, a diploma from a reputable Medical College shall entitle its holder to enter the second course in Dental Colleges of this Association, but he may be excused from attendance upon lectures and examinations upon the following subjects: General Anatomy, Chemistry, Physiology, Materia Medica and Therapeutics. (Excelsior, 1890.)

*Resolved*, That the candidates for admission to the Colleges of this Association who are Undergraduates in a reputable Medical College, may be admitted to the Junior class, subject to the rules of examination governing admission to that class. (Saratoga, 1891.)

Candidates for admission to advanced standing will be governed by the following rules:

*Resolved*, That the Colleges of this Association may receive into the Junior or Senior Classes only such students as hold certificates of having passed a satisfactory examination in the studies of the Freshman or of Junior years respectively; this certificate is to be a pledge to any College to which they may apply that a previous year has been properly spent in the institution from whence they come. (Chicago, 1885; changed, Saratoga, 1891.)

*Resolved*, That applicants for admission to advanced standing from foreign countries shall be required to furnish properly attested evidence of study, attendance upon lectures, etc., the same as required of applicants here, and they shall pass the intermediate examinations. (Chicago, 1885; changed, Saratoga, 1891.)

---

### PRELIMINARY EXAMINATIONS.

There are two general examinations for entrance held each year, on fixed dates; these are conducted by some well-known educator, who is selected for this purpose annually. Students desiring to enter must present themselves on the dates named, as no other examinations for entrance will be given.

The preliminary examination for the Session of 1893-94 will be held in San Francisco, at the College building, corner Market and Taylor Streets (entrance No. 18 Taylor Street), Monday, August 28th, at 9 o'clock A. M. The second examination will be held Saturday, September 30th, at 9 o'clock A. M. Students desiring to present themselves at these examinations will please register their applications with the Clerk of the Faculty, at the College, No. 18 Taylor Street.

### THREE YEARS' STUDY.

The three years' course of study is arranged as follows :

*Freshman Year.*—Anatomy, with dissections; Physiology; Chemistry, with laboratory work; Mechanical Dentistry; Operative Technic.

Examinations will be held at the end of the year in all the above branches.

*Junior Year.*—Anatomy, with dissections; Physiology; Chemistry, with laboratory work; Materia Medica; Mechanical Dentistry; Operative Dentistry; Histology, with microscopic technic; Pathology and Therapeutics; Orthodontia.

Examinations will be held at the end of the year in all the above branches, and will be final in Anatomy, Physiology, Chemistry and Materia Medica.

*Senior Year.*—Operative Dentistry; Mechanical Dentistry; Histology, with microscopic technic; Orthodontia, with practical cases; Metallurgy, with laboratory work; Pathology and Therapeutics; Surgery.

---

### REQUIREMENTS FOR GRADUATION.

The candidate for the Degree of Doctor of Dental Surgery must have attained the age of twenty-one years, and be of good moral character.

He shall have passed a satisfactory examination, oral, written and practical.

He shall have studied Dentistry *three* years, including the time spent in attending lectures.

He shall have attended three full courses in the Dental Department of the University of California, or two years in some other reputable Dental College, and the third or last in this College.

The candidate is required to dissect two quarters. He must treat thoroughly some patient requiring all the usual dental operations, and bring such patient before the Professors of Operative Dentistry and Dental Pathology and Therapeutics. He must also complete at least one practical artificial denture, insert at least one crown or piece of bridge work, and, after completion, bring his patient before the Lecturer on Mechanical Dentistry at least thirty days before the close of the term. He must treat one case of

irregularity, and, after the case is completed, bring his patient before the Professor of Orthodontia during the term. He must also prepare a specimen denture, to be deposited in the College collection, and present the same to the Lecturer on Mechanical Dentistry at least thirty days before the end of the term. The operating and the work on the artificial cases must be done at the College building, and exclusively by the applicant for the degree.

After these requirements have been complied with, upon the recommendation of the Faculty and approval of the Board of Regents, the candidate shall receive the degree of Doctor of Dental Surgery.

### SCHEDULE OF FEES.

Matriculation.....	\$ 5 00
Lecture Fees (each year).....	100 00
Special Course (Histology), Junior and Senior years...	10 00
Practical Anatomy (first and second years) .....	10 00
Fee for Final Examination (not returnable) .....	25 00

N. B.—Students who entered as Juniors in 1891 will observe the old schedule of fees.

### TEXT BOOKS.\*

The following books will be needed during the course of study. Students are advised to procure Nos. 1, 2, 3, 4, 5 and 14 of the subjoined list at the beginning of the first year, and to add the others before the Senior year :

1. Dental Dictionary, Harris, or Medical Dictionary, Dunglison or Thomas.
2. Anatomy, Gray, Quain or Holden.
3. Physiology, Yeo and Flint.
4. Mechanical Dentistry, Richardson or Harris.
5. Operative Dentistry, Harris, Taft or Fillebrown.
6. Dental Chemistry, Mitchell.
7. Dental Anatomy, Black.
8. Orthodontia, Guilford.
9. Dental Metallurgy, Essig.
10. Dental Materia Medica and Therapeutics, Gorgas or Stockens.

---

\* The first mentioned is the approved text book.

11. Surgery, Ashurst, or Walsham.
12. Therapeutics, Wood, Biddle or Bartholow.
13. Dental Pathology, Wedl.
14. Chemistry, Roscoe's Elementary Chemistry and Remsen's Introduction to the Study of Chemistry.
15. Materia Medica, United States Dispensatory or National Dispensatory.

**ADDITIONAL BOOKS FOR REFERENCE.**

Oral Surgery, Garretson.  
American System of Dentistry, Litch.  
Histology, Stricker, Frey, Beal or Wythe.  
Microscopical Morphology, Heitzman.  
Pathology, Wagner.  
Oral Deformities, Kingsley.  
Nitrous Oxide, Guilford.  
Mechanical Dentistry, Haskell.  
Micro-Organisms of the Human Mouth, Miller.  
Irregularities, Farrar or Talbot.  
Latin, Robinson's Grammar of Pharmacy and Medicine.



# OUTLINE OF THE COURSE OF STUDY.

---

## BIOLOGY.

Professor Joseph LeConte will deliver a series of lectures on the Correlation of Vital with Physical and Chemical Forces; also, upon the Homologies of the Vertebrate Skeletons.

---

## OPERATIVE DENTISTRY AND DENTAL HISTOLOGY.

The course of instruction in this department will be as comprehensive and thorough as improved appliances and methods can make it, and will embrace both the Didactic and Clinical courses.

Intra and extra uterine development of the teeth will be fully considered from the *primary* germ to the final loss of the permanent teeth.

The subject of Histology will be taught didactically and practically. Two days a week will be devoted to practical work in the laboratory by the Junior and Senior classes, during which time the student will prepare for himself a series of specimens illustrative of normal tissues and developing teeth.

A course of ten lectures will be given on Embryology and Histology, and fully illustrated by photo-micrographs, which will be thrown on the screen by aid of the stereopticon. This course is introductory to the subjects of Anatomy and Physiology, and will consist of a full consideration of the following subjects: A general study in the development of the chick and other embryos, the theory of reproduction, ova, segmentation, and the development of the three layers of the blastoderm, cellular morphology, including a comparative study of the biological cell, and the nature of protoplasm; the products of the epiblast, including the development of hair, nails, horns, hoofs, sudiporous, suderiferous glands and the enamel organ of the teeth.

The products of the mesoblast, showing the development of the connective tissue group, including the subject of calcification



of bone, dentine and enamel—illustrative of the latter many slides will be used in the comparative study of hard tissues—and lastly, the development of the teeth, will be fully considered by aid of a full line of photo-micrographs from human and other embryos.

This will be supplemented by practical work with the microscope, under the direction of Dr. F. O. Jacobs.

It will be the aim of the department to make the entire course of lectures from this chair as practical as possible, by a comparison of old and new methods, with a complete analysis of recent innovations in operative procedure.

Professor Dunbar will be assisted by Dr. H. P. Carlton, who will give two hours each week to a series of Clinical lectures and a course in Operative Technic, for Freshman students.

---

### MECHANICAL DENTISTRY.

The instruction in Mechanical Dentistry will embrace everything necessary to enable the dentist successfully to apply substitutes for lost dental organs.

Special reference will be made to the principles involved in the restoration of the natural functions of the teeth, namely: mastication, enunciation, and expression of the features; keeping in view always the health and the future usefulness of the living parts.

The instruction is divided into two courses, as follows:

*Junior Course.*—Lectures on the treatment of the mouth and teeth preparatory to inserting artificial dentures; impressions in wax and plaster; casts; the manufacture of artificial teeth, their selection and arrangement for special cases; application of atmospheric pressure to artificial dentures; properties and uses in the construction of dentures, of wax, plaster, shellac, sandarach, rubber and celluloid.

*Senior Course.*—Lectures on the construction of instruments, of dies and counter-dies, of models of the mouth, and of molds; construction of dentures on bases of gold, silver, and aluminum; continuous gum work.

The construction of crown and bridge work will receive the attention of a special Demonstrator.

## ORTHODONTIA AND DENTAL METALLURGY.

The correction of irregularities of the natural teeth, as well as the causes, will be treated at length and illustrated by means of drawings and numerous casts of practical cases. Much more attention is paid to this subject by the profession than formerly, and an endeavor will be made to keep the classes posted in regard to all new and valuable methods. Each Senior student is required to treat a case of irregularity during the session. Junior students will have a practical course in the construction of regulating appliances, exemplified in a series of demonstrations of Orthodontia Technic.

The instruction in *Dental Metallurgy*, including the properties and uses of gold, silver, platinum, aluminum, zinc, lead, tin, and their alloys, and of iron and steel, will be made more complete than heretofore. Special attention will be paid to refining and alloying gold, and to estimating its fineness.

Practical laboratory instruction will be given by Dr. Hodgen in working of the metals, and each student will be required to conduct all the usual operations in Dental Metallurgy, as well as to make experiments in new compounds and alloys. Considerable attention will be paid to the analysis and compounding of amalgam alloys.

---

## PHYSIOLOGY.

The lectures in this department, by Professor D'Ancona, embrace a consideration of both General and Special Physiology, including all that has been developed up to the present time, and are illustrated by the largest and most complete series of colored drawings in the United States, prepared exclusively for these lectures; besides which the vast collection of preparations and drawings of the Scientific Department at Berkeley are at the command of the Professor. Vivisections are practiced when necessary to demonstrate principles, and the microscope and stereopticon are freely used for illustrating important facts and principles.

The course embraces the lectures of two years, one year being devoted to the physiology of the nervous system and reproduction, the other to nutrition, respiration, circulation, etc.

## **SURGERY.**

Professor William B. Lewitt, the Professor of the Principles and Practice of Surgery, will deliver one lecture each week on the Science and Art of Surgery, and devote one hour each week to a Surgical Clinic. His course will include General Surgical Principles and Pathology, and such lectures as may seem best adapted to Students and Practitioners of Dentistry. Also, a series of lectures on Anæsthesia and Anæsthetics, both general and local, with clinical illustrations before the class, assisted by Dr. Sharp. Particular attention will be devoted to Surgical Diseases and injuries of the Mouth, Gums and Jaws, and the students will be instructed in their diagnosis, prognosis and treatment, both by lectures and clinical demonstrations.

---

## **CHEMISTRY AND MATERIA MEDICA.**

Professor A. L. Lengfeld, in his course, will deliver two lectures each week, devoting special attention to that part of Chemistry which pertains more particularly to Dentistry. The lectures will be fully illustrated by means of all the necessary chemical and philosophical apparatus and numerous experiments. Materia Medica will be taught by lectures and recitations. The nature, physical and chemical properties of the various remedies employed in Dentistry will be illustrated by the exhibition of crude drugs and pharmaceutical preparations, and by botanical plates and specimens.

A prominent feature of the course will be a recitation during a portion of each hour, the questions being based upon the subjects of the preceding lectures and Roscoe's Lessons in Elementary Chemistry.

---

## **PRACTICAL CHEMISTRY.**

Mr. A. Auchie Cunningham, Assistant to the Chair of Chemistry, will conduct a systematic and practical course in Experimental Chemistry, Qualitative Analysis and Salivary Analysis. Each student is provided with a separate table and a complete set of apparatus and chemicals, and performs individually all experiments and reactions. Two courses in Practical Chemistry are required:

I.—*First Year*.—Following Remsen's Introduction to the Study of Chemistry as a guide, each student will perform a series

of experiments in which he will develop the main principles of the science of Chemistry, and become familiar with the physical and chemical properties of the leading families of elements and their compounds.

II.—*Second Year.*—The experimental work will be continued. Special regard will be given to Analytical Chemistry and the analysis of the Saliva.

A fee of one dollar will be charged, to cover breakage and loss.

**Text Books.**—Lessons in Elementary Chemistry, Roscoe; An Introduction to the Study of Chemistry, Remsen; United States Dispensatory; Dental Medicine, Gorgas.

---

### ANATOMY.

Professor J. M. Williamson's course on Anatomy will consist of a series of recitations or "quizzes," illustrated by wet and dry preparations, models, manikins and drawings. The course includes General, Special and Topographical Anatomy.

---

### DENTAL PATHOLOGY AND THERAPEUTICS.

The lectures delivered by the incumbent of this chair will embrace a full and comprehensive course on the following topics:

1. **General Pathology.**—In which will be discussed those general aspects of disease with which it is necessary to be acquainted in order to be able to understand the nature of any departure from health; causes of disease, symptoms, diagnosis, prognosis, temperaments, pathology of anæsthetics, irritation, determination, congestion, inflammation and its terminations; effusion, suppuration, ulceration, gangrene, sloughing, morbid growths, etc.

2. **Special Pathology.**—In which a critical examination will be made into the special causes of dental decay; dental hygiene and prophylaxis; disease of the enamel—of the dentine; diseases of the dentinal pulp—together with the causes of alveolar abscess—its stages and results; exostosis of the roots and alveoli; necrosis and exfoliation; disease of the antrum; tumors, benign and malignant; diseases of the mucuous membrane.



Neuralgia and other nervous affections will receive such attention as their importance may demand; and, besides, there will be presented such other special diseases as may in any degree be of interest to the dental practitioner, such as scurvy, scrofula, rachitis and other diseases of the bones.

**3. General Principles of Therapeutics.**—Under which head the general application of Medicines will be noticed—their actions, constitutional and topical.

**4. Special Therapeutics.**—In connection with Dental Materia Medica, as incidentally related thereto.

---

### THE DENTAL LABORATORY.

The Dental Laboratory will be in charge of the Superintendent of Infirmary, who will assign patients to students, and, with the Demonstrators of Mechanical Dentistry, will give practical instruction in preparing the mouth for the insertion of artificial teeth, taking impressions, selecting and arranging teeth, and the construction of artificial dentures on bases of vulcanite, celluloid, silver, gold, etc.; also, in alloying, refining and preparing the metals for use. Special attention will be given to continuous gum work. On account of the length of the term, the opportunities for practice in correcting irregularities of the teeth will be unsurpassed, and will receive their share of attention.

---

### THE DENTAL INFIRMARY.

The Operating Department will be under the immediate supervision of the Superintendent of Infirmary and his Assistant, who will have entire charge.

The rooms will be open during the forenoon of Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, and during the afternoon of each day except Saturday, until 5 o'clock, when all practical matters pertaining to Operative Dentistry will be fully dealt with by the Demonstrators, one of whom will always be present. The Infirmary will be open throughout the entire year, thus affording a practical course for first and second year students unsurpassed by any similar institution. As there is always an excess of clinical material on hand, and there are six



hundred and forty-eight hours per term (including three hours each Wednesday afternoon) devoted to practical consideration of diseases of the teeth and the adjacent parts, it is not difficult to estimate the advantages the students have in this department.

---

### DISSECTIONS.

The work in Practical Anatomy will be performed under the direction of the Demonstrator of Anatomy and his Assistant, in the dissecting room of the College of Medicine, Toland Hall, Stockton street, between Chestnut and Francisco. The dissecting room is open throughout the entire year; a full supply of material is always on hand at small cost, and is thoroughly preserved from decomposition. Upon the proper completion of the required dissections, the student is furnished by the Demonstrator with a certificate to that effect, which must be presented to the Dean for record.

The dissecting ticket (\$10) is good for the whole year—from January 1st to December 31st.

---

### CLINICAL INSTRUCTION.

During the course, Wednesday afternoon, from 1 to 3, will be devoted to clinical lectures and operations by the Professors and Clinical Instructors.

---

### HOSPITALS.

All students in Dentistry will have all the facilities and opportunities enjoyed by the medical students in hospital practice and observation. They will have the freedom, as above represented, of the City and County Hospital and the City Receiving Hospital.

Medical and Surgical Clinical lectures are given by the Professors of the Medical Department of the City and County Hospital, Tuesdays, Thursdays and Saturdays, from 9 to 11 A. M.; attendance upon which, though not a requirement, is recommended on account of the unsurpassed facilities for study of anæsthetic methods.

For further particulars on this subject, see Medical Department Announcement.

## LIBRARY AND MUSEUM.

A nucleus has been formed, from which it is hoped a large library and museum will grow. All members and friends of the profession are invited to contribute books, pamphlets and journals, charts, anatomical, physiological and pathological specimens, casts of deformities and irregularities of the teeth and associate parts, or anything that will be useful or instructive.

These contributions will be placed in the library and museum, and marked with the name of the donors, if desired.

*As a separate library and reading room is now provided, a special request is made for donations of books and pamphlets.*

The Faculty desires to gratefully acknowledge donations of books, pamphlets and specimens from Drs. W. E. Taylor, A. L. Lengfeld, W. A. Knowles, W. F. Lewis, J. M. Whitney and Jorge Arroyo, and the estate of the late Dr. E. F. Bunnell.

L. L. DUNBAR, Dean of the Faculty,  
500 Sutter Street, San Francisco.

---

**N. B.—Boarding.**—The expense of living in the city of San Francisco is very reasonable. Good board, with room rent, may now be procured at the low rate of five dollars per week, at a convenient distance from the College building.

There is a free Public Library in San Francisco, of which students may have full benefit.

Upon arriving in the city, students will immediately register in the Dean's office, at the College building, No. 18 Taylor Street.

# STUDENTS OF THE SESSION OF 1892-93.

## SENIOR CLASS.

NAME.	RESIDENCE.	PRECEPTOR.
Alger, Edmund J. . . . .	Santa Cruz, Cal. . . . .	J. P. Parker, D.D.S.
Allen, Reginald Heber . . . .	Oakland, Cal. . . . .	Col. of Dentistry, U.C.
Arroyo, Jorge . . . . .	Guatemala, C. A. . . . .	H.C. Davis, L.D.S. and Chas. Boxton, D.D.S.
Ashworth, Frank Parker . . . .	San Jose, Cal. . . . .	Frank L. Argall.
Avery, William Nelson . . . .	Santa Clara, Cal. . . . .	A.M. Barker.
Bennett, Augustus Griffin, Jr. .	San Jose, Cal. . . . .	J. L. Asay, M.D.
Coke, Paul Sterling . . . . .	Mansfield, Or. . . . .	O. E. Smith, Trueman and Steele.
Courét, Raoul Maximilian Bronces . . . . .	Sonora, Mexico . . . . .	H. L. Courét, D.D.S.
Davis, Emille William . . . . .	Sydney, N. S. W. . . . .	Aubrey Davis, L.S.D.
Dennis, Cecil Chalmers . . . .	San Francisco, Cal. . . . .	S. W. Dennis, M.D., D.D.S.
Derby, Albert Terrill . . . . .	Riverside, Cal. . . . .	E. D. Howe.
Grove, Will Caughlin . . . . .	Oakland, Cal. . . . .	Drs. C. F. & G. W. Rodolph.
Halsey, Wilber Hanford . . . .	Oakland, Cal. . . . .	I. S. Halsey.
Huddy, George Herman . . . . .	Honolulu, H. I. . . . .	Wm. B. McAllister.
Litchfield, Oscar . . . . .	Sebastopol, Cal. . . . .	J. H. Rankin.
Milliken, George Thomas* . . .	San Francisco, Cal. . . . .	C.W. Richards, D.D.S.
Meredith, George Hubbard . . .	Smartsville, Cal. . . . .	C. W. Decker.
Mervy, Edward Thomas . . . .	Berkeley, Cal. . . . .	Wm. Croome, Emer- son and Waller.
McQuitty, William Andrew . . .	San Francisco, Cal. . . . .	Col. of Dentistry, U.C.
Parr, Edward Franklin . . . . .	Chico, Cal. . . . .	D. W. Wasley.
Root, Corydon B. . . . .	San Francisco, Cal. . . . .	H. C. Davis, L.D.S.
Schlott, Ernest Frederick . . . .	San Francisco, Cal. . . . .	Julius Conradt.
Schumacher, Frederick . . . . .	San Jose, Cal. . . . .	F. K. Ledyard.
Scott, Walter Kendall . . . . .	Redwood City, Cal. . . . .	H. P. Carlton, D.D.S.
Sharp, James Graham . . . . .	San Francisco, Cal. . . . .	L. L. Dunbar, D.D.S.
Suggett, Allen Holman . . . . .	Colusa, Cal. . . . .	W. E. Cook.
Sullivan, Harry Francis . . . . .	Oakland, Cal. . . . .	J. M. Dunn, D.D.S.
Taylor, Robert Lee . . . . .	Crescent Mills, Cal. . . . .	J. N. Blood, D.D.S.
Taylor, William Emmett . . . .	Oakland, Cal. . . . .	Col. of Dentistry, U.C.
Thomas, Joseph Treleaven . . . .	Gold Hill, Nev. . . . .	W. O. Cornwall.
Thurston, George Washington.	Cuffey's Cove, Cal. . . . .	E. A. Verrinder, M.D.
Wadsworth, William Henry . . .	Ukiah, Cal. . . . .	W. H. Hodghead, D.D.S., and C. W. Hibbard, D.D.S.

\* Not in attendance.

### JUNIOR CLASS.

NAME.	RESIDENCE.	PRECEPTOR.
Baird, Edward Ellsworth . . .	Lodi, Cal. . . .	Col. of Dentistry, U.C.
Cavell, William Henry . . .	Modesto, Cal. . .	Col. of Dentistry, U.C.
Chappell, McCoy . . . . .	Redding, Cal. . .	Col. of Dentistry, U.C.
Coleman, Ralph Charles . . .	San Francisco, Cal.	Col. of Dentistry, U.C.
Deichmiller, Conrad . . . .	Los Angeles, Cal.	A. P. Hayes.
Gibbon, John Alvin . . . . .	San Francisco, Cal.	J. S. Porter.
Graham, Gilbert Fuller . . .	Chico, Cal. . . . .	Col. of Dentistry, U.C.
Gray, Robert Frederick . . .	San Francisco, Cal.	Col. of Dentistry, U.C.
Jewell, Walter Simpson . . .	Washington, D. C.	Col. of Dentistry, U.C.
Lawrence, William Henry* . .	San Francisco, Cal.	Philadelphia Dental College.
Likens, James William . . . .	Carson, Nev. . . .	Dr. S. Southworth.
Mish, Julian Emanuel* . . . .	San Francisco, Cal.	F. F. Lord, M. D.
O'Rourke, William . . . . .	Oakland, Cal. . . .	Col. of Dentistry, U.C.
Powell, Henry, Jr. . . . .	Haywards, Cal. . .	Col. of Dentistry, U.C.
Saul, Overton Matthew . . . .	San Francisco, Cal.	G. Saul.
Rees, John Stephen* . . . . .	Leesville . . . . .	A. Cornwall.
Taylor, Walter Judson . . . .	Oakland, Cal. . . .	J. S. Porter.
Vogel, Thomas Augustus . . .	San Francisco, Cal.	Col. of Dentistry, U.C.
Vogelman, David John . . . .	Modesto, Cal. . . .	J. W. Remington.
Wilcox, Walter Irving . . . .	Santa Clara, Cal. .	Col. of Dentistry, U.C.
Wood, Charles Custer . . . . .	Modesto, Cal. . . .	Col. of Dentistry, U.C.

### FRESHMAN CLASS.

NAME.	RESIDENCE.	PRECEPTOR.
Abrams, George . . . . .	San Francisco, Cal.	Max Sichel and C. L. Griswold, D.D.S.
Atwood, William Amos . . . .	Los Angeles, Cal. .	Col. of Dentistry, U.C.
Axton, Frederick Richard . . .	Eureka, Cal. . . .	Wm. E. Cook.
Badilla, Calixto Vincent . . .	Heredia, C'sta Rica.	J. F. Orozeo, D.D.S.
Barrett, Thomas Francis . . .	San Francisco, Cal.	Col. of Dentistry, U.C.
Bernard, Herbert Andrew . . .	San Francisco, Cal.	E.O. Cochrane, D.D.S.
Borger, John Nicholas . . . .	Campo Seco, Cal. .	Col. of Dentistry, U.C.
Bowles, John Bennett . . . . .	Napa, Cal. . . . .	Chas. Boxton, D.D.S.
Brown, James Albert . . . . .	San Francisco, Cal.	A. V. Brown.
Brun, Louis Etienne, B. S. . . .	Nines, France . . .	Col. of Dentistry, U.C.
Burger, Walter Irving . . . .	San Jose, Cal. . . .	Col. of Dentistry, U.C.
Bush, Ferdinand John Henry .	San Francisco, Cal.	Louis Bush.
Cannon, Edward D'Arcy . . . .	Oakland, Cal. . . .	J. S. Porter.
Carpenter, Byron Leonard . . .	Poplar, Cal. . . . .	F. L. Argall.
Clark, William Nathan . . . .	Watsonville, Cal. .	C. L. Butterfield.
Coney, David Milton . . . . .	San Francisco, Cal.	N.T. Coulson, D.D.S.
Dodson, Eugene Morris . . . .	Sacramento, Cal. .	Col. of Dentistry, U.C.
Egan, Mary* . . . . .	Austin, Nev. . . .	Col. of Dentistry, U.C.
Fitch, Oscar Plank . . . . .	Oakland, Cal. . . .	F. J. Saxe, D.D.S.
Fitzgibbon, James Garrett . .	San Francisco, Cal.	Col. of Dentistry, U.C.
Fitzpatrick, Guy Mannering* .	San Francisco, Cal.	N.T. Coulson, D.D.S.

\* Not in attendance. . . .



NAME.	RESIDENCE.	PRECEPTOR.
Flood, Arthur Morris . . . . .	San Francisco, Cal.	J. N. Blood, D.D.S.
Ford, Arthur James . . . . .	Taylorsville, Cal.	W. Z. King and C. D. Brown, D.D.S.
Hale, Reuben Lyon . . . . .	Martinez, Cal.	Col. of Dentistry, U.C.
Halsted, Eminel Potter . . . . .	San Francisco, Cal.	Col. of Dentistry, U.C.
Hardy, John Ross . . . . .	Oakland . . . . .	Col. of Dentistry, U.C.
Hauselt, Charles Peter . . . . .	San Francisco, Cal.	Col. of Dentistry, U.C.
Holloway, Edward Shortridge . . . . .	College City, Cal.	Col. of Dentistry, U.C.
Jamison, Homer Hamilton . . . . .	Haywards, Cal.	R. H. Cool, D.D.S.
Jeffrey, Joseph Arthur . . . . .	San Francisco, Cal.	M. F. Gabbs, D.D.S.
Kaye, James Stuart . . . . .	Victoria, B. C.	Col. of Dentistry, U.C.
Legro, Albert Leland . . . . .	Santa Rosa, Cal.	C. W. Savage, M.D.
Leviston, Frank Edward . . . . .	San Rafael, Cal.	Col. of Dentistry, U.C.
Logan, James Alliston . . . . .	Hollister . . . . .	F. H. Phillips, D.D.S.
Ludlow, William Berridge, Jr. . . . .	Oakland, Cal.	S. P. Tate.
Matthews, Charles Fitzhugh . . . . .	San Francisco, Cal.	Col. of Dentistry, U.C.
McCan, Francis Asbury . . . . .	Lathrop, Cal.	Frank Burton.
McGowan, James Lewis . . . . .	Salinas, Cal.	G. B. Lemon.
McLean, Alexander David . . . . .	San Francisco, Cal.	N. T. Coulson, D.D.S.
McNutt, Robert B. . . . .	Oakland, Cal.	Col. of Dentistry, U.C.
Morris, Amiel . . . . .	Woodland, Cal.	J. D. Hodgen, D.D.S.
Munday, Franklin Kelly . . . . .	Petaluma, Cal.	Col. of Dentistry, U.C.
O'Connell, Robert Emmett . . . . .	Gold Hill, Nev.	Chas. Boxton, D.D.S., and H. C. Davis, L. D.S.
O'Connor, Patrick Henry . . . . .	San Jose, Cal.	W. DeCrow.
Pearce, Clarence Hubert . . . . .	Watsonville, Cal.	Col. of Dentistry, U.C.
Porterfield, Robert Henry . . . . .	San Francisco, Cal.	Col. of Dentistry, U.C.
Preston, Abram Pierce . . . . .	Santa Rosa, Cal.	G. Knepper.
Sagehorn, George Theodore . . . . .	Oakland, Cal.	Col. of Dentistry, U.C.
Sawyer, Fred Earl . . . . .	Oakland, Cal.	I. S. Halsey.
Sichel, Leo . . . . .	San Francisco, Cal.	Col. of Dentistry, U.C.
Singleton, Walter E. . . . .	San Jose, Cal.	E. G. Smith, D.D.S.
Smith, Robert Washington . . . . .	Oakland, Cal.	Col. of Dentistry, U.C.
Stephenson, Harley Howard . . . . .	Sacramento, Cal.	Col. of Dentistry, U.C.
Strain, Edward Lord . . . . .	San Francisco, Cal.	Col. of Dentistry, U.C.
Tibbetts, Arthur Livingston . . . . .	Petaluma, Cal.	Col. of Dentistry, U.C.
Tourtellotte, George Everett . . . . .	San Francisco, Cal.	Col. of Dentistry, U.C.
Wachhorst, Newton Booth . . . . .	Sacramento, Cal.	Col. of Dentistry, U.C.
Waterman, Frederick Ruthven . . . . .	San Francisco, Cal.	G. H. Worrell, D.D.S.
White, Frederick Heilbron . . . . .	San Francisco, Cal.	S. Southworth and J. S. Porter.
Yela, Joachim, Jr. . . . .	Guatemala, C. A.	Col. of Dentistry, U.C.

#### SPECIAL STUDENT.

NAME.	RESIDENCE.	PRECEPTOR.
Cunningham, Stephen Joseph . . . . .	San Francisco, Cal.	Col. of Dentistry, U.C.

#### Summary.

SENIORS . . . . .	32
JUNIORS . . . . .	21
FRESHMEN . . . . .	60
SPECIAL STUDENT . . . . .	1
Total . . . . .	114



## COMMENCEMENT, 1892-93.

---

The Eleventh Commencement Exercises of the College of Dentistry of the University of California were held at Odd Fellows' Hall, San Francisco, California, Thursday, March 9th, 1893, at 8 o'clock P. M.

### ORDER OF EXERCISES.

OVERTURE, "William Tell" ..... *Rossini*

PRAYER.....REV. J. Q. ADAMS

PILGRIMS' CHORUS, "Lombardi" ..... *Verdi*.

ADDRESS ON BEHALF OF THE FACULTY,

HARRY P. CARLTON, D.D.S., '86.

SELECTION, "Cavalleria Rusticana" ..... *Mascagni*

CONFERRING DEGREES OF DOCTOR DENTAL SURGERY,

MARTIN KELLOGG, A.M., President of the University,

SELECTION, "Faust" ..... *Gounod*

BENEDICTION, REV. J. Q. ADAMS.

## GRADUATES.

### 1882

Thomas Watson Hall . . . . .	Oakland, California
Charles Wesley Hibbard . . . . .	San Francisco, California
Thomas Morffew . . . . .	San Francisco, California
Henry John Plomteaux . . . . .	Oakland, California
Charles Wesley Richards . . . . .	San Francisco, California
Gustave William Sichel, M. D. . . . .	San Francisco, California
William Henry Stanley . . . . .	San Francisco, California
August Van Crombrughe † . . . . .	San Francisco, California

### 1883

John Nelson Blood * . . . . .	Greenville, California
Charles Boxton . . . . .	San Francisco, California
Maria Angelina Burch * . . . . .	Pescadero, California
Edward Overton Cochrane . . . . .	San Francisco, California
Russell Hopkins Cool . . . . .	Oakland, California
Milton Francis Gabbs . . . . .	San Francisco, California
William Edmund Price . . . . .	San Francisco, California

### 1884

George Washington Cool . . . . .	Guatemala, Central America
John Michael Dunn . . . . .	Oakland, California
Archibald Duncan Gleaves . . . . .	Anderson, California
Robert Nicol . . . . .	India
Gustave Carl Reitzke . . . . .	San Francisco, California
William Henry Simmons . . . . .	Oakland, California
Elmer Joseph Weldon . . . . .	Vacaville, California

### 1885

Henry Sylvester Bettis . . . . .	Boise City, Idaho
George Botsford . . . . .	San Francisco, California
Daniel Barratt Cate . . . . .	Quincy, California
Nathaniel Thomas Coulson . . . . .	San Francisco, California
George Ihmer Drucker . . . . .	San Francisco, California
William Ellis Fitzpatrick . . . . .	San Francisco, California
Walter Robert Henderson . . . . .	Stockton, California
John Adams Douglas Hutton . . . . .	West Berkeley, California
Franklin Pancoast . . . . .	San Francisco, California
Charles Theodore Rodolph . . . . .	Oakland, California
Frederick Judson Saxe, A. M. . . . .	Oakland, California
Joseph Schneider . . . . .	San Salvador, Central America
Henry Sylvester, Jr. . . . .	San Francisco, California

\* Deceased.

† Name changed to August Van Crom by Superior Court, San Francisco, July 22, 1889.

1886

Harry Putnam Carlton . . . . .	San Francisco, California
Hector Ludovic Couret . . . . .	Sonora, Mexico
Martin Joseph Dunn . . . . .	San Francisco, California
Nicholas Anton Givovich . . . . .	Ragusa, Austria
John Gow Humphrey . . . . .	San Francisco, California
Thomas Harvey Morris . . . . .	San Francisco, California
William Cormack Reith . . . . .	Sacramento, California
Joseph Emil Sand . . . . .	San Francisco, California
Benjamin Franklin Simmons . . . . .	Oakland, California
William Oltman Stuttmeister . . . . .	Redwood City, California
William Grover Sylvester . . . . .	San Francisco, California

1887

Edward Livingston Davis . . . . .	San Jose, California
Joseph Dupuy Hodgen . . . . .	San Francisco, California
Harold McKean Jones . . . . .	Cloverdale, California
Edward Maldonado . . . . .	San Francisco, California
Robert Eugene Payne . . . . .	San Francisco, California
Charles Edgar Post . . . . .	San Francisco, California
Arthur Theodore Regensburger . . . . .	San Francisco, California
George Frederick Rodden . . . . .	San Francisco, California
George Walter Rodolph . . . . .	Oakland, California
Granville Eugene Shuey . . . . .	East Oakland, California
Jennie Martha Simpson . . . . .	San Francisco, California
Otto Frank Westfall . . . . .	San Francisco, California

1888

Ira Hart Chapman . . . . .	Tacoma, Washington
Samuel Alston Hackett . . . . .	Oakland, California
Frank Lewis Hultberg . . . . .	San Francisco, California
Philander McCargar . . . . .	Oakland, California
Joseph Pfister . . . . .	Pinole, California
William George Shankey . . . . .	San Francisco, California
Edward Nelson Short . . . . .	San Francisco, California
Charles Sawtelle Weston . . . . .	Oakland, California

1889

Milton Ross Gambitz . . . . .	San Francisco, California
Benjamin Mitchell Gunzberger . . . . .	San Francisco, California
William Alexander Meyer . . . . .	San Francisco, California
Warren Guice Mobley . . . . .	Oakland, California
Dorr Nash . . . . .	San Jose, California
Andrew John Powell . . . . .	Haywards, California
Edward William Pratt . . . . .	San Francisco, California
Frederick Courtland Sutliff . . . . .	Sacramento, California
Arthur Henry Wallace . . . . .	San Francisco, California

1890

Frederick Harrison Allbright . . . . .	Red Bluff, California
Gotthard Sigismund Backman . . . . .	San Francisco, California
Frank Drake Burleson . . . . .	Woodland, California

Paul Charles Erhardt . . . . .	San Francisco, California
William T. Heider . . . . .	Oakland, California
Charles Alexis Herrick . . . . .	Jackson, California
Saul Robert Jacobs . . . . .	San Francisco, California
Charles Ashby Litton . . . . .	San Francisco, California
Walter Romain Lovegrove . . . . .	San Francisco, California
George Martin . . . . .	Berlin, Germany
Clark Harrison Rawson . . . . .	Jamestown, New York
Richard McCargar . . . . .	San Francisco, California
John Matthew Redmond . . . . .	Santa Rosa, California
David Warren Rulison . . . . .	Reno, Nevada
William Fuller Sharp . . . . .	San Francisco, California
Albert John Sylvester . . . . .	San Francisco, California

### 1891

Josephine Wright Armstrong . . . . .	San Francisco, California
Charles Franklin Bauer . . . . .	San Francisco, California
Charles Henry Bell . . . . .	San Francisco, California
John Millard Blodgett . . . . .	Madera, California
Cecil Corwin . . . . .	Oakland, California
D. Carter Elliot . . . . .	Martinez, California
Philip Foster Frear . . . . .	Oakland, California
Charles Lawrence Griswold . . . . .	San Francisco, California
Charles George Hyde . . . . .	Merced, California
Edwin Chandler Hyde . . . . .	Phoenix, A. T.
William Martin . . . . .	Oakland, California
John Patrick McCarthy . . . . .	Oakland, California
Charles Avan Meek . . . . .	San Francisco, California
Albert Dean Elmore Miles . . . . .	Stockton, California
Robert Forrester Millar . . . . .	Alameda, California
Robert Isaac Moore . . . . .	San Francisco, California
Howard Delos Noble . . . . .	San Francisco, California
Forrest Hoy Orton . . . . .	St. Paul, Minnesota
Frank Harry Phillips . . . . .	Hollister, California
Harry Griffin Richards . . . . .	San Francisco, California
Harold Lawrence Seager . . . . .	San Francisco, California
Harry Howard Shaw . . . . .	San Francisco, California
George Newins Van Orden . . . . .	San Francisco, California
Gustavus Adolphus Weyer . . . . .	Modesto, California

### 1892-93

Edmund James Alger . . . . .	Santa Cruz, California
Reginald Heber Allen . . . . .	Lodi, California
Jorge Arroyo . . . . .	Guatemala, Central America
Frank Parker Ashworth . . . . .	San Jose, California
William Nelson Avery . . . . .	San Jose, California
Augustus Griffin Bennett, Jr . . . . .	San Jose, California
Paul Stirling Coke . . . . .	San Francisco, California
Emille William Davis . . . . .	Sydney, N. S. W.
Cecil Chalmers Dennis . . . . .	San Francisco, California
Albert Terrill Derby . . . . .	San Francisco, California

William Caughlin Grove . . . . .	Oakland, California
Wilbur Hanford Halsey . . . . .	Oakland, California
George Hermann Huddy . . . . .	Honolulu, H. I.
Oscar Litchfield . . . . .	
William Andrew McQuitty . . . . .	San Francisco, California
George Hubbard Meredith . . . . .	
Edward Thomas Mervy . . . . .	Oakland, California
Edward Franklin Parr . . . . .	Chico, California
Corydon B. Root . . . . .	San Francisco, California
Ernest Frederick Schlott . . . . .	San Francisco, California
Frederick Schumacher . . . . .	San Jose, California
Walter Kendal Scott . . . . .	San Francisco, California
James Graham Sharp . . . . .	San Francisco, California
Allen Holman Suggett, B. S. . . . .	Marysville, California
Harry Francis Sullivan . . . . .	Oakland, California
Robert Lee Taylor . . . . .	San Francisco, California
William Emmett Taylor . . . . .	Oakland, California
Joseph Treleaven Thomas . . . . .	Gold Hill, Nevada



# UNIVERSITY OF CALIFORNIA.

---

## ACADEMIC SENATE.

NOTE.—The Faculties of the University, together with the Instructors, constitute by law the Academic Senate.

The names, excepting those of the President and Secretary, are arranged in the order of original accession to membership in the Academic Senate.

---

MARTIN KELLOGG, A.M., L.L.D., President.

*Bushnell Street, near College Way, Berkeley.*

JOHN HARMON C. BONTÉ, D.D., Secretary. Professor of Legal Ethics.

*Dwight Way, near Choate Street, Berkeley.*

JOSEPH LECONTE, A.M., M.D., L.L.D., Professor of Geology and Natural History.

*Bancroft Way, near Piedmont Ave., Berkeley.*

FRANK SOULÉ, Professor of Civil Engineering and Astronomy  
Graduate U. S. Military Academy, West Point.

*960 Oak Street, Oakland.*

STEPHEN JOHNSON FIELD, L.L.D., Honorary Professor of Law.

*Washington, D. C., and San Francisco.*

WILLARD BRADLEY RISING, A.M., M.E., PH.D., Professor of Chemistry.

*Corner Chapel Street and Allston Way, Berkeley.*

GEORGE WOODBURY BUNNELL, A.M., Professor of the Greek Language and Literature.

*1955 Telegraph Avenue, Oakland.*

GEORGE DAVIDSON, PH.D., D.Sc., Honorary Professor of Geodesy and Astronomy.

*U. S. Coast and Geodetic Survey, San Francisco.*

RICHARD BEVERLEY COLE, A.M., M.D., M.R.C.S., Eng., Professor of Obstetrics and Gynecology.

*218 Post Street, San Francisco.*

GEORGE CUNNINGHAM EDWARDS, PH.B., Associate Professor of Mathematics.

*1568 Webster Street, Oakland.*

ALBIN PUTZKER, Professor of the German Language and Literature.

*Corner Humboldt Avenue and Parker Street, Berkeley.*

EUGENE WOLDEMAR HILGARD, PH.D., L.L.D., Professor of Agriculture and Agricultural Chemistry, and Director of Agricultural Experiment Stations. *Bancroft Way, near Audubon St., Berkeley.*

SAMUEL BENEDICT CHRISTY, PH.B., Professor of Mining and Metallurgy. *Piedmont Avenue, near Bancroft Way, Berkeley.*

FREDERICK SLATE, B.S., Associate Professor of Physics and Instructor in Mechanics. *Audubon St., near Bancroft Way, Berkeley.*

FREDERICK GODFREY HESSE, Professor of Mechanical Engineering. *Corner Broadway and Telegraph Ave., Oakland.*

BERNARD MOSES, PH.D., Professor of History and Political Economy. *Audubon Street, near University Grounds, Berkeley.*

WILLIAM CAREY JONES, A.M., Associate Professor of United States History. *University Avenue, near Oxford Street, Berkeley.*

WILLIAM THEODORE WENZELL, M.D., PHARM. M., Professor of Chemistry in the College of Pharmacy. *201 Polk Street, San Francisco.*

ROBERT ARMISTEAD McLEAN, M.D., Professor of Clinical and Operative Surgery; Dean of the Medical Faculty. *305 Kearny Street, San Francisco.*

GEORGE AUGUSTUS SHURTLEFF, M.D., Emeritus Professor of Mental Diseases and Medical Jurisprudence. *Stockton.*

WILLIAM FLETCHER McNUTT, M.D., L.R.C.S. and L.R.C.P., Professor of the Principles and Practice of Medicine. *Corner Sutter and Montgomery Streets, San Francisco.*

SERRANNO CLINTON HASTINGS, LL.D., Professor of Comparative Jurisprudence. *Phelan Building, San Francisco.*

EDMOND O'NEILL, PH.B., Assistant Professor of Chemistry. *1403 Chestnut Street, Oakland.*

EDWARD JAMES WICKSON, A.M., Associate Professor of Agriculture, Horticulture and Entomology. *Corner Bancroft Way and Audubon Street, Berkeley.*

HANS HERMAN BEHR, M.D., Professor of Botany in the College of Pharmacy. *Academy of Sciences, San Francisco.*

- WILLIAM MARTIN SEARBY, Professor of Materia Medica in the College of Pharmacy, and Dean of the Pharmaceutical Faculty.  
*400 Sutter Street, San Francisco.*
- WILLIAM EDWIN TAYLOR, M.D., Professor of the Principles and Practice of Surgery.  
*215 Geary Street, San Francisco.*
- CLARK LAMOTTE GODDARD, A.M., D.D.S., Professor of Orthodontia and Dental Metallurgy.  
*131 Post Street, San Francisco.*
- ABRAHAM LEWIS LENGFELD, M.D., Professor of Materia Medica and Medical Chemistry.  
*202 Stockton Street, San Francisco.*
- IRVING STRINGHAM, PH.D., Professor of Mathematics, Dean of the Faculty of Letters and of the Faculties of Science.  
*Piedmont Avenue, facing Bancroft Way, Berkeley.*
- EDWARD LEE GREENE, PH.B., Associate Professor of Botany.  
*University Avenue, between Sherman and Grant Streets, Berkeley.*
- CORNELIUS BEACH BRADLEY, A.M., Associate Professor of the English Language and Literature.  
*Bancroft Way, near Chapel Street, Berkeley.*
- WILLIAM BREAKEY LEWITT, M.D., Professor of the Principles and Practice of Surgery, College of Dentistry.  
*800 McAllister Street, San Francisco.*
- BENJAMIN RALPH SWAN, M.D., Professor of the Diseases of Children.  
*310 Stockton Street, San Francisco.*
- GEORGE HOLMES HOWISON, LL.D., Mills Professor of Intellectual and Moral Philosophy and Civil Polity.  
*Dwight Way, near Choate Street, Berkeley.*
- LUIS LANE DUNBAR, D.D.S., Professor of Operative Dentistry and Dental Histology, and Dean of the Dental Faculty.  
*500 Sutter Street, San Francisco.*
- MAURICE JAMES SULLIVAN, D.D.S., Professor of Dental Histology and Therapeutics.  
*30 Post Street, San Francisco.*
- CHARLES WILLIAM SLACK, PH.B., LL.B., Professor of Municipal Law.  
*New City Hall, San Francisco.*
- HERMANN KOWER, C.E., Assistant Professor of Instrumental Drawing.  
*906 Broadway, Oakland.*

- EDWARD SINGLETON HOLDEN, A.M., LL.D., Director of the  
Lick Observatory, and Astronomer. *Mount Hamilton.*
- GEORGE HERMAN POWERS, A.M., M.D., Professor of Ophthalmology and Otology. *Cor. Mason and Sutter Streets, San Francisco.*
- JOACHIM HENRY SENGGER, PH.D., Assistant Professor of German. *2122 Steiner Street, San Francisco.*
- WILLIAM WATT KERR, A.M., M.B., C.M., Professor of Clinical Medicine. *600 Sutter Street, San Francisco.*
- FELICIEN VICTOR PAGET, BACHELIER ES LETTRES, BACHELIER ES SCIENCES, Assistant Professor of the French and Spanish Languages. *Dwight Way, near Bowditch Street, Berkeley.*
- ARNOLD ABRAHAM D'ANCONA, A.B., M.D., Professor of Physiology and Microscopy. *405 Montgomery Street, San Francisco.*
- THOMAS RUTHERFORD BACON, A.B., Associate Professor of European History. *Bushnell Street, Berkeley.*
- ELISHA WILLIAMS MCKINSTRY, LL.D., Professor of Municipal Law. *4 Sutter Street, San Francisco.*
- WILLIAM DALLAM ARMES, PH.B., Instructor in English. *560 Fourteenth Street, Oakland.*
- DOUGLAS WILLIAM MONTGOMERY, M.D., Professor of Pathology and Microscopy; Curator of the Medical Department. *1124 Sutter Street, San Francisco.*
- GEORGE MOREY RICHARDSON, PH.D., Instructor in Latin. *Durant Avenue, near Shattuck Avenue, Berkeley.*
- CHARLES MILLS GAYLEY, A.B., Professor of the English Language and Literature. *Bushnell Street, Berkeley.*
- MELLEN WOODMAN HASKELL, PH.D., Assistant Professor of Mathematics. *Durant Avenue, near Shattuck Avenue, Berkeley.*
- ARMIN OTTO LEUSCHNER, A.B., Instructor in Mathematics. *University Avenue, near Oxford Street, Berkeley.*
- ALEXANDER F. LANGE, A.M., Assistant Professor of English. *University Avenue, near Oxford Street, Berkeley.*



BENJAMIN HARRISON RANDOLPH, FIRST LIEUTENANT, THIRD  
U. S. ARTILLERY, Professor of Military Science and Tactics.

*2029 Encinal Avenue, Alameda.*

ANDREW COWPER LAWSON, A.M., PH.D., Assistant Professor of  
Mineralogy and Geology.

*Dwight Way, near Choate Street, Berkeley.*

HENRY IRWIN RANDALL, B.S., Instructor in Civil Engineering.

*Milvia Street, near Berkeley Way, Berkeley.*

ISAAC FLAGG, PH.D., Associate Professor of Classical Philology.

*Corner Francisco and Milvia Streets, Berkeley.*

WASHINGTON DODGE, M.D., Professor of Therapeutics.

*1407 Van Ness Avenue, San Francisco.*

JOHN MARSHALL WILLIAMSON, M.D., Professor of Anatomy.

*906 Market Street, San Francisco.*

HENRY FREDERICK MEIER, Professor of the Theory and Prac-  
tice of Pharmacy.

*214-220 Townsend Street, San Francisco.*

JEROME JOHN BAPTIST ARGENTI, PH.G., Professor of Microscopy  
and Pharmacognosy.

*301 Third Street, San Francisco.*

ROBERT HILLS LOUGHRIDGE, PH.D., Assistant Professor of  
Agricultural Geology and Agricultural Chemistry.

*Bancroft Way, near Choate Street, Berkeley.*

CHARLES FOSTER DIO HASTINGS, Dean of the Faculty of Law.

*120 Phelan Block, San Francisco.*

CHARLES WILLIAM WOODWORTH, M.S., Assistant in Ento-  
mology.

*Lincoln Street, near Shattuck Avenue, Berkeley.*

WALTER EDMUND MAGEE, Instructor in Physical Culture.

*Ninth University Cottage, Berkeley.*

LOUIS PAPARELLI, LIC. AG., Instructor in Viticulture and Olive  
Culture.

*Seventh University Cottage, Berkeley.*

WILLIAM EMERSON RITTER, M.A., Instructor in Biological  
Laboratory.

*Durant Avenue, near Fulton Street, Berkeley.*

SAMUEL DAVID HUNTINGTON, A.B., Instructor in French.

*Russ House, San Francisco.*



FRANK GELETT BURGESS, S.B., Instructor in Topographical and  
Free-hand Drawing. *1407 Jones Street, San Francisco.*

LEON JOSIAH RICHARDSON, A.B., Assistant in Latin.  
*Shattuck Avenue, near Center Street, Berkeley.*

MARSHALL AVERY HOWE, PH.B., Instructor in Cryptogramic  
Botany. *Channing Way, near Ellsworth Street, Berkeley.*

JOSEPH CUMMINGS ROWELL, A.B., Librarian of the University.  
*2207 West Street, Oakland.*

JOHN WOOSTER ROBERTSON, A.B.; M.D., Professor of Mental  
Diseases and Medical Jurisprudence.  
*705 Sutter Street, San Francisco.*

JOHN MARTIN SCHAEBERLE, C.E., Astronomer.  
*Mount Hamilton.*

EDWARD EMERSON BARNARD, A.M., Astronomer.  
*Mount Hamilton.*

WILLIAM WALLACE CAMPBELL, C.E., Astronomer.  
*Mount Hamilton.*

HAROLD WHITING, PH.D., Assistant Professor of Physics.  
*Haste Street, corner South Alherton Street, Berkeley.*

MYER EDWARD JAFFA, PH.B., Instructor in the Agricultural  
Laboratory. *1421 Steiner Street, San Francisco.*

JOSEPH ADAM SLADKY, Superintendent and Instructor in the  
Mechanical and Electrical Engineering Laboratories.  
*11 Grant Avenue, San Francisco.*

GEORGE ELDEN COLBY, PH.B., Instructor in the Viticultural  
Laboratory.  
*Claremont Avenue, near College Avenue (Berkeley P. O.).*

FRANKLIN BOOTH, B.S., Instructor in Assaying, and Assistant in  
Metallurgy. *College Avenue, near Dwight Way, Berkeley.*

FRANK HOWARD PAYNE, M.D., Director of Physical Culture.  
*University Avenue, near Shattuck Avenue, Berkeley.*

ELMER REGINALD DREW, B.S., Instructor in Physics.  
*472 Twenty-fourth street, Oakland.*

ELMER ELLSWORTH BROWN, PH.D., Associate Professor of  
the Science and Art of Teaching.

*2715 Channing Way, Berkeley.*

LOUIS DU PONT SYLE, A.M., Instructor in English.

*S. E. corner Haste and Dana Streets, Berkeley.*

FRANKLIN THEODORE GREEN, PH.G., Professor of Chemistry,  
*ad interim*, in the College of Pharmacy.

*500 Devisadero Street, San Francisco.*

FRED EMORY HAYNES, PH.D., Instructor in United States History.

*2811 Bancroft Way, Berkeley.*

ARCHIE BURTON PIERCE, A.M., Instructor in Mathematics.

*2719 Channing Way, Berkeley.*

AMBROSE E. O'NEILL, Instructor in Chemistry in the College of  
Pharmacy.

WILLIAM JOHN SHARWOOD, Associate Royal School of Mines,  
London, Instructor in Chemistry.

*Dwight Way, near Audubon Street, Berkeley.*

CLARENCE LINUS CORY, M.M.E., Assistant Professor of Mechan-  
ical and Electrical Engineering.

*Atherton Street, near Allston Way, Berkeley.*

———, Assistant Professor of History and Political Science.

# UNIVERSITY OF CALIFORNIA.

---

## DEPARTMENTS AT BERKELEY,

### INCLUDING

- |   |                                       |
|---|---------------------------------------|
| I. COLLEGE OF LETTERS.                          | 2. COLLEGE OF AGRICULTURE.            |
| (a) CLASSICAL COURSE.                           | 3. COLLEGE OF MECHANICS.              |
| (b) LITERARY COURSE.                            | 4. COLLEGE OF MINING.                 |
| (c) COURSE IN LETTERS<br>AND POLITICAL SCIENCE. | 5. COLLEGE OF CIVIL ENGI-<br>NEERING. |
| 6. COLLEGE OF CHEMISTRY.                        |                                       |
- 

## THE ACADEMIC COUNCIL.

---

NOTE.—The Academic Council is composed of all the professors and instructors in the College of Letters and the Colleges of Science.

The names, excepting that of the Chairman, are divided into groups of professors, associate professors, assistant professors, and instructors, and arranged alphabetically in each group.

---

MARTIN KELLOGG, President of the University, CHAIRMAN.

---

GEORGE WOODBURY BUNNELL, Professor of the Greek Language and Literature.

SAMUEL B. CHRISTY, Professor of Mining and Metallurgy.

CHARLES M. GAYLEY, Professor of the English Language and Literature.

FREDERICK G. HESSE, Professor of Mechanical Engineering.

EUGENE W. HILGARD, Professor of Agriculture and Agricultural Chemistry.

GEORGE H. HOWISON, Mills Professor of Intellectual and Moral Philosophy and Civil Polity.

JOSEPH LeCONTE, Professor of Geology and Natural History.

BERNARD MOSES, Professor of History and Political Economy.

ALBIN PUTZKER, Professor of the German Language and Literature.

BENJAMIN H. RANDOLPH, Professor of Military Science and Tactics.

WILLARD B. RISING, Professor of Chemistry.

FRANK SOULÉ, Professor of Civil Engineering and Astronomy.

IRVING STRINGHAM, Professor of Mathematics.

THOMAS R. BACON, Associate Professor of European History.

CORNELIUS B. BRADLEY, Associate Professor of the English Language and Literature.

GEORGE C. EDWARDS, Associate Professor of Mathematics.

ISAAC FLAGG, Associate Professor of Classical Philology.

EDWARD L. GREENE, Associate Professor of Botany.

WM. CAREY JONES, Associate Professor of United States History.

FÉLICIEN V. PAGE, Associate Professor of French and Spanish.

FREDERICK SLATE, Associate Professor of Physics and Instructor in Mechanics.

EDWARD J. WICKSON, Associate Professor of Agriculture, Horticulture and Entomology.

---

MELLEN W. HASKELL, Assistant Professor of Mathematics.

HERMANN KOWER, Assistant Professor of Instrumental Drawing.

ALEXANDER F. LANGE, Assistant Professor of English.

ANDREW C. LAWSON, Assistant Professor of Mineralogy and Geology.

R. H. LOUGHRIDGE, Assistant Professor of Agricultural Geology and Agricultural Chemistry.

EDMOND O'NEILL, Assistant Professor of Chemistry.

J. HENRY SENGER, Assistant Professor of German.

---

WILLIAM D. ARMES, Instructor in English.

F. G. BURGESS, Instructor in Topographical and Free-hand Drawing.

S. D. HUNTINGTON, Instructor in French and Spanish.

ARMIN O. LEUSCHNER, Instructor in Mathematics.

W. E. MAGEE, Instructor in Physical Culture.

L. PAPARELLI, Instructor in Viticulture and Olive Culture.

HENRY I. RANDALL, Instructor in Civil Engineering.

GEORGE M. RICHARDSON, Instructor in Latin.

W. E. RITTER, Instructor in the Biological Laboratory.

C. W. WOODWORTH, Assistant in Entomology.

---

JAMES SUTTON, Recorder of the Faculties, SECRETARY.

# UNIVERSITY OF CALIFORNIA.

---

## MEDICAL DEPARTMENT.

---

### FACULTY.

---

MARTIN KELLOGG, A.M., President of the University, and *ex-officio* President of the Faculty.

---

G. A. SHURTLEFF, M.D., Emeritus Professor of Mental Diseases and Medical Jurisprudence.

---

R. BEVERLY COLE, A.M., M.D., M.R.C.S., Eng., Professor of Obstetrics and Gynecology.

---

W. F. McNUTT, M.D., M.R.C.P., Edin., etc., Professor of Principles and Practice of Medicine.

---

ROBERT A. McLEAN, M.D., Professor of Clinical and Operative Surgery, Dean.

---

W. E. TAYLOR, M.D., Professor of Principles and Practice of Surgery.

---

A. L. LENGFELD, M.D., Professor of Materia Medica and Medical Chemistry.

---

BENJ. R. SWAN, M.D., Professor of Diseases of Children.

---

GEORGE H. POWERS, A.M., M.D., Professor of Ophthalmology and Otology.

---

WM. WATT KERR, A.M., M.B., C.M., Professor of Clinical Medicine.

---

ARNOLD A. D'ANCONA, A.B., M.D., Professor of Physiology.

---

DOUGLAS W. MONTGOMERY, M.D., Professor of Pathology and Histology.

---

WASHINGTON DODGE, M.D., Professor of Therapeutics.

---

JOHN M. WILLIAMSON, M.D., Professor of Anatomy.

---

JOHN W. ROBERTSON, A.B., M.D., Professor of Nervous and Mental Diseases.

---

GEO. F. SHIELS, M.D., F.R.C.S.E., Lecturer on Hygiene and Medical Jurisprudence.

---

CHAS. A. VON HOFFMAN, M.D., Lecturer on Gynecology.

---

THOS. BOWHILL, F.R.C.V.S., Lecturer on Bacteriology.

---

JOHN C. SPENCER, A.B., M.D., Lecturer on Pathology and Histology.

---



DEMONSTRATORS AND ASSISTANTS.

---

- J. HENRY BARBAT, Ph.G., M.D., Demonstrator of Anatomy.  
SAM. P. TUGGLE, M.D., Assistant Demonstrator of Anatomy.  
W. E. HOPKINS, M.D., U.S.A., Assistant to the Chair of Ophthalmology and Otology.  
JOHN M. SIMS, M.D., Assistant Demonstrator of Anatomy.  
EDWARD von ADELUNG, JR., B.S., M.D., Assistant to the Chair of Physiology.  
A. AUCHIE CUNNINGHAM, F.C.S., F. I. Inst., Assistant to the Chair of Materia Medica and Medical Chemistry.  
S. J. FRASER, A.B., M.D., Assistant Demonstrator of Anatomy.  
FRED. WM. LOWE, M.D., Assistant Demonstrator of Anatomy.  
FRANK L. BOSQUI, M.D., Assistant to the Chair of Pathology and Histology.
- 

COLLEGE DISPENSARY STAFF.

---

*Medicine—*

WASHINGTON DODGE, M.D.  
F. W. D'EVELYN, M.D., C.M.

*Surgery—*

JOHN M. WILLIAMSON, M.D.  
A. K. HAPERSBERG, M.D.

*Ophthalmology and Otology—*

W. E. HOPKINS, M.D., U.S.A.

*Gynecology—*

CHAS. A. VON HOFFMAN, M.D.

*Cutaneous and Venereal Diseases—*

DOUGLAS W. MONTGOMERY, M.D.

The Preliminary Term begins March 1st. The Regular Term begins June 1st and ends November 30th.

Graduates of Dental Colleges in good standing are admitted to the Second Class without examination.

In 1895 a four years' course will be inaugurated.

ROBERT A. McLEAN, Dean,  
305 Kearny Street, San Francisco, Cal.

# UNIVERSITY OF CALIFORNIA.

## DEPARTMENT OF PHARMACY.

---

### CALIFORNIA COLLEGE OF PHARMACY.

#### Faculty.

MARTIN KELLOGG, A.M., President of the University, and *ex-officio* President of the Faculty.

WILLIAM T. WENZELL, M.D., Ph.G., Ph.M., Professor of Chemistry.

HERMANN H. BEHR, M.D., Professor of Botany.

C. A. SEIFERT, Ph.G., Professor of Pharmacy.

JEROME J. B. ARGENTI, Ph.G., Professor of Microscopy and Pharmacognosy.

WILLIAM M. SEARBY, Ph.C., Professor of Materia Medica, and Dean.

F. T. GREEN, Ph.G., Professor of Analytical and Pharmaceutical Chemistry, and Director of the Laboratory.

JOSEPHINE E. BARBAT, Ph.G., Instructor in Botany.

H. E. D. BESTHORN, Ph.G., Instructor in Pharmacy.

OTTO A. WEIHE, Ph.G., Instructor in Materia Medica.

M. R. GIBSON, Ph.G., Instructor in Microscopy.

This College is now equipped with every requisite for teaching the various branches pertaining to Pharmacy. In addition to its Materia Medica Museum, Analytical and Pharmaceutical Laboratory, there was added recently a Microscopical Department, which has been enlarged for the ensuing term by the purchase of more Microscopes and appliances.

The Requirements for Admission being set at a standard equal only to that of youths who have been graduated from the Grammar Schools of this State, exclude no one who has a prospect of becoming a moderately proficient student. All who have not certificates entitling them to enter the High Schools, or credentials of equal value, are examined in the ordinary branches of an English education.

The entire curriculum consists of two courses of six months each, from April 1st to October 1st in each year, with a Laboratory course of twenty-four days' actual work between February 1st and April 1st of the second year.

The Lectures and Demonstrations are delivered in Chemistry, Botany, Materia Medica, Microscopy and Pharmacy, from April to November.

The Laboratory, under charge of Prof. Green and an assistant, is in operation from February to April for the compulsory work of the College. Only the extra Laboratory instruction is given during the lecture term.

The Alumni Review (Quiz) Classes are conducted by five Instructors, who are all graduates of our own College, whose instructions are of the greatest value and assistance to the students.

In every respect this College aims to keep abreast of the leading Colleges of Pharmacy in the country, adopting the most approved methods of teaching, and keeping pace with the rapid advances of pharmaceutical science.

Students from other Colleges of Pharmacy who have attended the Junior course, have passed the examinations at the close of the term, and present certificates that they are entitled to enter the Senior class of the college they have attended, are admitted to the Senior class of this College.

**Pharmacists Entering Medical Colleges.**—Graduates in Pharmacy of this College are permitted to present themselves for examination for the degree of Doctor of Medicine in the Medical Department of the University of California and in the Cooper Medical College, after attending either of those schools two years, instead of three, as required of other students. The fees have also been reduced in like proportion to our graduates. This generous concession is a gratifying evidence of the value of pharmaceutical instruction, and should not be overlooked by young men who design ultimately to make the practice of medicine their profession.

**Three Prizes** are bestowed in each session.

Assistants seeking situations, and employers wanting clerks,

can register their names with the Dean. Students may have their mail matter addressed in care of the College.

The Session of 1894 begins as follows: LABORATORY, for Senior students only, about February 1st. LECTURE TERM, for Juniors and Seniors, about April 1st. PRELIMINARY EXAMINATION for Matriculation, about April 1st.

For Prospectus, Terms and further information, address

W. M. SEARBY,

*Dean of the Faculty,*

400 Sutter St., San Francisco.

THE LIBRARY OF THE

FEB 26 1931

UNIVERSITY OF CALIFORNIA SAN FRANCISCO POLYCLINIC

POST-GRADUATE MEDICAL DEPARTMENT OF THE

UNIVERSITY OF CALIFORNIA

A School of Clinical Medicine for Graduates of Colleges  
of Regular Medicine.

MARTIN KELLOGG, A.M., LL.D., President of the University.

LOUIS BAZET, M.D., Professor of Genito-Urinary Surgery.  
EDWARD S. CLARK, M.D., Professor of Otology.  
FRED. W. D'EVELYN, M.B., C.M., Edin., Professor of Pediatrics.  
C. A. VON HOFFMANN, M.D., Professor of Gynecology and Obstetrics.  
HENRY KREUTZMANN, M.D., Professor of Gynecology and Obstetrics.  
DOUGLASS W. MONTGOMERY, M.D., Professor of Venereal Diseases and Dermatology.  
JOHN F. MORSE, M.D., Professor of Surgery.  
MARTIN REGENSBURGER, M.D., Professor of Venereal Diseases and Dermatology.  
HARRY M. SHERMAN, A.M., M.D., Professor of Orthopedic Surgery.  
GEORGE F. SHIELDS, M.D., C.M., Edin., F.R.C.S.E., Professor of Surgery.  
J. H. STALLARD, M.B., M.R.C.P., Lond., M.R.C.S., Eng., Professor of Medicine.  
HENRY L. WAGNER, M.D., Ph.D., Professor of Ophthalmology.  
A. P. WHITTELL, M.D., Professor of Ophthalmology.  
W. F. McNUTT, M.D., M.R.C.P., Edin., Prof. of Diseases of Heart and Kidneys.  
W. E. HOPKINS, M.D., Professor of Rhinology and Laryngology.  
W. A. MARTIN, M.D., Professor of Rhinology and Laryngology.  
LUKE ROBINSON, M.D., M.R.C.P., Lond., Professor of Gynecology.  
W. H. MAYS, M.D., Professor of Gynecology.  
LEO NEWMARK, M.D., Professor of Neurology.  
J. C. SPENCER, A.B., M.D., Professor of Bacteriology.

There are three courses of Clinical Lectures arranged for each year—a Regular Course, beginning 1st June and continuing six months (the first Regular Course begins 1st of June, 1893), and two Special Courses, each of six weeks' duration and beginning 1st January and 15th March.

**Regular Course**—Instruction during this course consists of Clinical Lectures delivered at the Polyclinic House, and of Ward and Operation Clinics at the Hospitals of San Francisco, on the staff of which are members of the Post-Graduate Faculty. Of the Clinical Lectures at the Polyclinic House there are twenty-two each week. These practically cover the field of Medicine and Surgery, and are amply illustrated by cases selected from the large numbers attending the free clinics of the San Francisco Polyclinic. Of the Ward and Operation Clinics these are, each week, distributed between the City and County Hospital, the Children's Hospital and St. Luke's Hospital. The service at each of these hospitals is full, and there is every opportunity to witness operations and the after treatment and course of cases.

**Special Courses**—These are intermediate between the end of one Regular Course and the beginning of another. During the time of a Special Course the Clinical Lectures and Hospital Clinics are given as during the Regular Course. There is in addition a series of six lectures on each of six special subjects—thirty-six lectures—given in the Polyclinic House by different members of the Faculty.

**Bacteriology**—The laboratory is now open to students. Course in practical bacteriology, twenty-four lessons, three hours each, \$20.00. Arrangements may also be made for use of the laboratory by practitioners who wish to pursue some independent line of investigation. For more specific information concerning laboratory work, or any matter of the post-graduate courses, address

SECRETARY SAN FRANCISCO POLYCLINIC,

315 ELLIS STREET, SAN FRANCISCO.



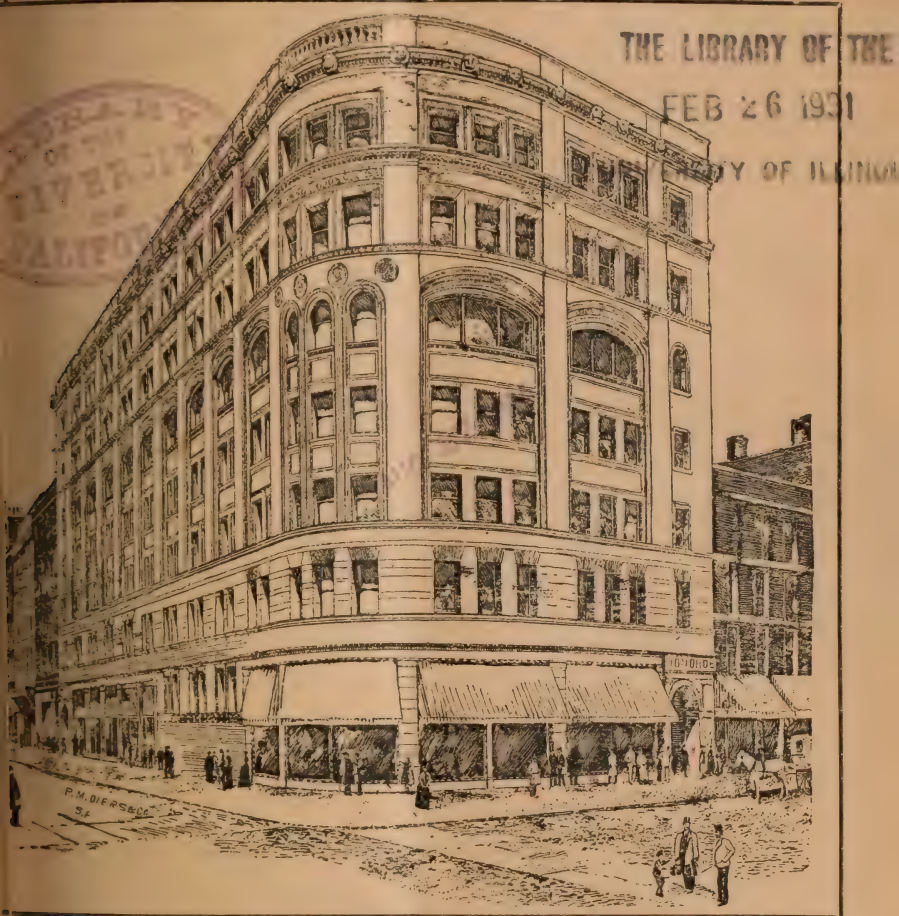




u2d  
95/96

# COLLEGE OF DENTISTRY

OF THE  
UNIVERSITY OF CALIFORNIA



COR. MARKET AND TAYLOR STREETS

## FOURTEENTH SESSION

Commencing September 2, 1895, and Ending May 31, 1896

## CALENDAR FOR 1895-96.

---

Monday, August 26 . . . . .	First Preliminary Examination
Monday, September 2 . . . . .	Beginning of Term
Monday, September 9 . . . . .	Holiday (Admission Day)
Saturday, October 12 . . . . .	Second Preliminary Examination
Thursday, November 28 } . . . . .	Thanksgiving Recess
Saturday, November 30 }	
Saturday, December 7 (9 A. M) . . . . .	Examination for Conditions
Monday, December 23 } . . . . .	Christmas Vacation (3 weeks)
Saturday, January 11 }	
Saturday, February 22 . . . . .	Holiday (Washington's Birthday)
March 23 . . . . .	Charter Day (University of California)
April 2 to May 7 . . . . .	Senior Examination in Infirmary
May 18 to May 23 . . . . .	Senior Examinations
May 25 to May 30 . . . . .	Junior and Freshman Examinations
May 30 . . . . .	End of Term
Wednesday, June 17 . . . . .	Commencement
June 1 to September 1 . . . . .	Practical Course for Junior and Freshman Students

# ANNOUNCEMENT

OF THE

THE LIBRARY OF THE

FEB 26 1931

# COLLEGE OF DENTISTRY

OF THE

# UNIVERSITY OF CALIFORNIA

FOR ITS

## FOURTEENTH SESSION

COMMENCING SEPTEMBER 2, 1895, AND ENDING MAY 31, 1896

---

*J. B. — Those who wish to receive the Announcement are requested to forward their  
Names and Addresses to the Dean.*

---

SAN FRANCISCO:

C. A. MURDOCK & Co., PRINTERS

1895



# UNIVERSITY OF CALIFORNIA.

---

## OFFICE DIRECTORY.

---

### IN BERKELEY.

- The office of the PRESIDENT is Room No. 20, *North Hall*.  
The office of the DEAN is Room No. 32, *North Hall*.  
The office of the RECORDER is Room No. 10, *North Hall*.  
The office of the SECRETARY and office of the BOARD OF REGENTS is in *South Hall*.  
The office of the LAND AGENT is in *South Hall*.
- 

### AT MT. HAMILTON.

- The address of the DIRECTOR OF THE LICK OBSERVATORY is Lick Observatory, Mt. Hamilton, Santa Clara County, California.
- 

### IN SAN FRANCISCO.

- The office of the REGISTRAR OF THE COLLEGE OF LAW is No. 230 Montgomery Street, Room 15.  
Lectures in the COLLEGE OF LAW are delivered in the Assembly Room of the Society of Pioneers, No. 808 Montgomery Street.  
The office of the DEAN OF THE MEDICAL FACULTY is No. 305 Kearny Street.  
The COLLEGE OF MEDICINE is situated on Stockton Street, between Chestnut and Francisco, in Toland Hall.  
The Medical and Surgical Clinics of the COLLEGE OF MEDICINE are held at the City and County Hospital, Twenty-second Street and Potrero Avenue.  
The Dispensary Clinics of the COLLEGE OF MEDICINE are held at 155 New Montgomery Street.  
The office of the DEAN OF THE DENTAL FACULTY is No. 500 Sutter Street.  
Lectures in the COLLEGE OF DENTISTRY are delivered in the College Building, No. 18 Taylor Street, corner of Market.  
The office of the DEAN OF THE COLLEGE OF PHARMACY is No. 400 Sutter Street.  
The COLLEGE OF PHARMACY is situated at No. 113 Fulton Street between Polk Street and Van Ness Avenue.  
The office of the BOARD OF REGENTS is in the Hopkins Art Building corner of Mason and California Streets.  
The office of the TREASURER OF THE BOARD OF REGENTS is No. 31 Sansome Street.

# UNIVERSITY OF CALIFORNIA.

## BOARD OF REGENTS.

### Ex-Officio Regents.

HIS EXCELLENCY JAS. H. BUDD . . . . .	Sacramento
<i>Governor, ex-officio President of the Board.</i>	
HIS HONOR S. G. MILLARD . . . . .	Los Angeles
<i>Lieutenant-Governor.</i>	
HON. JOHN C. LYNCH . . . . .	Cucamonga
<i>Speaker of the Assembly.</i>	
HON. SAMUEL T. BLACK . . . . .	Sacramento
<i>State Superintendent of Public Instruction.</i>	
HON. CHAS. M. CHASE . . . . .	Sacramento
<i>President of the State Agricultural Society.</i>	
A. S. HALLIDIE, Esq. . . . .	511 Market Street, San Francisco
<i>President of the Mechanics' Institute.</i>	
MARTIN KELLOGG, A.M., LL. D. . . . .	Berkeley
<i>President of the University.</i>	

### Appointed Regents.\*

NAME.	ADDRESS.	TERM EXPIRES.
CHARLES W. SLACK . . . . .	New City Hall, S. F. . .	1910
HON. J. WEST MARTIN . . . . .	Union Savings Bank, Oakland . . . . .	1898
ANDREW S. HALLIDIE, Esq. . . . .	9 Fremont St., S. F. . .	1908
HON. WILLIAM T. WALLACE . . . . .	799 Van Ness Ave., S. F.	1902
JAMES A. WAYMIRE . . . . .	Alameda . . . . .	1908
J. F. HOUGHTON, Esq. . . . .	Palace Hotel, S. F. . .	1904
HON. TIMOTHY GUY PHELPS . . . . .	Custom House, S. F. . .	1896
ISAIAS WILLIAM HELLMAN, Esq. . . . .	Nevada Bank, S. F. . .	1902
GEORGE THOMAS MARVE, JR., LL. B. . . . .	234 Montgomery St., S. F.	1898
ARTHUR RODGERS, A.B., Ph.B. . . . .	309 Montgomery St., S. F.	1906
GEORGE JENNINGS AINSWORTH, Ph.B. . . . .	Redondo . . . . .	1900
HON. HENRY S. FOOTE . . . . .	305 Larkin St., S. F. . .	1900
ALBERT MILLER, Esq. . . . .	532 California St., S. F.	1906
COLUMBUS BARTLETT, Esq. . . . .	14 Sansome St., S. F. . .	1896
CHARLES FREDERICK CROCKER, Esq. . . . .	Union Trust Co. Building, S. F. . . . .	1904
CHESTER ROWELL, M.D. . . . .	Fresno . . . . .	1910
J. H. C. BONTÉ, D.D., Secretary . .		Berkeley.

Regular meetings of the Board of Regents are held thirteen times a year, viz.: In San Francisco, on the second Tuesday in each month; in Berkeley, on the day preceding Commencement in the College of Letters and the Colleges of Science.

\* In the order of original appointment.

# UNIVERSITY OF CALIFORNIA.

---

## COLLEGE OF DENTISTRY.

DONOHUE BUILDING, CORNER OF MARKET AND TAYLOR STREETS,  
SAN FRANCISCO.

---

### FACULTY.

MARTIN KELLOGG, A.M., LL.D., President of the University, and  
*ex-officio* President of the Faculty.

JOSEPH LeCONTE, M.D., LL.D., Honorary Professor of Biology.

W. E. TAYLOR, M.D., Emeritus Professor of Surgery.

C. L. GODDARD, A.M., D.D.S., Professor of Orthodontia.

L. L. DUNBAR, D.D.S., Dean, and Professor of Operative Dentistry.

MAURICE J. SULLIVAN, D.D.S., Professor of Dental Pathology,  
Therapeutics, and Materia Medica.

WILLIAM B. LEWITT, M.D., Professor of the Principles and Practice  
of Surgery.

A. L. LENGFELD, M.D., Professor of Chemistry and Metallurgy.

A. A. D'ANCONA, A.B., M.D., Professor of Physiology and Histology.

J. M. WILLIAMSON, M.D., Professor of Anatomy.

---

### LECTURERS, DEMONSTRATORS, AND ASSISTANTS.

W. F. SHARP, D.D.S., D.M.D., Lecturer on Mechanical Dentistry.

H. R. WILEY, A.B., Lecturer on Dental Jurisprudence.

CHARLES A. LITTON, D.D.S., Superintendent of Infirmary.

M. J. SULLIVAN, D.D.S., Instructor in Clinical Operative Dentistry.

HARRY P. CARLTON, D.D.S., Instructor in Operative Technic.

PAUL C. ERHARDT, D.D.S. Demonstrator of Operative Dentistry.

W. F. SHARP, D.D.S., D.M.D., Instructor in Clinical Mechanical  
Dentistry.

**LECTURERS, DEMONSTRATORS, AND ASSISTANTS.—Continued.**

P. C. ERHARDT, D.D.S., Assistant in Operative Dentistry.  
WALTER I. WILCOX, D.D.S., Demonstrator of Mechanical Dentistry.  
JAMES W. LIKENS, D.D.S., Demonstrator of Operative Dentistry.  
HAROLD L. SAEGER, D.D.S., Assistant Demonstrator of Mechanical  
and Operative Technic.  
JOHN H. BARBAT, PH. G., M.D., Demonstrator of Anatomy.  
O. W. JONES, M.D., Assistant Demonstrator of Anatomy.  
S. J. FRASER, A.B., M.D., Assistant Demonstrator of Anatomy.  
J. D. HODGEN, D.D.S., Assistant in Chemistry and Metallurgy.  
H. D. NOBLE, D.D.S., Demonstrator of Orthodontia Technic.  
JAMES G. SHARP, D.D.S., M.D., Assistant to the Chair of Physiology  
and Histology.

---

**CLINICAL INSTRUCTORS.**

F. W. BLISS, D.D.S. . . . . Santa Cruz  
GEO. H. CHANCE, D.D.S., M.D., . . . . . Portland, Oregon  
WARREN DeCROW . . . . . San Jose  
H. HIPKINS, L.D.S. . . . . San Francisco  
A. O. HOOKER . . . . . San Jose  
H. E. KNOX, D.D.S. . . . . Oakland  
W. F. LEWIS . . . . . Oakland  
J. P. PARKER, D.D.S. . . . . Santa Cruz  
W. E. PRICE, D.D.S. . . . . San Francisco  
WM. B. SHERMAN, D.D.S. . . . . San Francisco  
MAX SICHEL . . . . . San Francisco  
E. L. TOWNSEND, D.D.S. . . . . Los Angeles  
L. VAN ORDEN, M.D., D.D.S. . . . . San Francisco  
F. H. METCALF, D.D.S. . . . . Sacramento

L. L. DUNBAR, Dean,  
No. 500 Sutter Street, San Francisco.

## FOURTEENTH SESSION.

1895-96.

---

The College of Dentistry of the University of California begins its Fourteenth Session on Monday, September 2, 1895, under circumstances that promise much for the future of the department. It now stands in the front rank of technical schools, easily maintaining the standard for which its founders have striven, and bearing the good will of the profession both here and abroad. It is a matter for congratulation that its graduates take rank with the foremost wherever they go, both in professional training and general culture.

The increased facilities provided at the beginning of last term were met by the largest attendance in the history of the school, which now occupies the entire upper floor of one of the largest buildings in the city, and with its arrangement of rooms and general equipment secures all that could be desired in any first-class Dental College. At the last session of the State Legislature, a bill was passed, through the combined efforts of the professional Colleges of the University, aided by public-spirited citizens, appropriating \$250,000 for the construction of a building for these practical departments. Steps are now being taken to secure a suitable site; this being accomplished, construction will begin at once. We then hope to offer a course of instruction based upon a standard of entrance requirements that will challenge comparison anywhere.

Recognizing the importance of preparatory training, this school will during the year establish an additional course, or fourth year, for those who are deficient in educational requirements. This course will be recommended to applicants who wish to prepare themselves in Chemistry, Physics, and Latin, and will include also a course in Dental Manual Training. It will be obligatory



upon all who must take these examinations to enter, but optional with those who have prepared themselves elsewhere. It is hoped by this means to remove a serious handicap from students who might otherwise be conditioned at the entrance examination, as well as to provide instruction in these branches under the direction of the Faculty.

The graded course of instruction adopted in 1891 gives very satisfactory results. Students are systematically employed, and the handling of a large number of students is facilitated, giving all a like opportunity.

Under the new arrangement the infirmary is separated entirely from the lecture and class rooms, so that students only come into contact with patients under direct assignment by the Superintendent. Elevators are provided for the exclusive use of each; that for patients of the infirmary being on Market Street, and for students at the Taylor Street entrance to the building.

The College building is admirably situated for convenient access, occupying a prominent corner upon the main thoroughfare of the city, contiguous to all lines of cars, direct or by transfer.

The supply of clinic material is very abundant, and during some seasons more than can be served. To the thirty chairs already in use we have added eighteen more, making forty-eight in all, with accessory cabinets, brackets, etc.

A commodious senior operating room is also provided for advanced students, in addition to the large operating rooms already provided.

The dental laboratories are on the same floor, and consist of two—one for elementary instruction in Mechanical Technic, and the other for advanced students. These are thoroughly equipped with individual benches, provided with lockers as well as the latest improved appliances for all kinds of prosthetic work.

Crown and bridge work is a prominent feature of the instruction in the Junior year, followed by advanced work in porcelain construction in the Senior year.

Orthodontia, both didactic and practical, including a course in Orthodontia Technics, is an important part of the curriculum, receiving the entire attention of a specialist in this branch of practice.

The course in Histology will be supplemented by a full laboratory course in Histology and practical work with the microscope. Special attention will be given to Section Cutting—both of hard and soft tissues. A suitable room is provided for this purpose, equipped with all the requisites for instruction, including fifteen superior microscopes.

The building is provided with abundant means of egress, in two wide stairways, two elevators, and two outside fire-escapes on each side.

All the lectures of the Department will be delivered in the College lecture room, but the work in Practical Anatomy will be performed under the superintendence of the Demonstrator of Anatomy, at the College of Medicine, Stockton Street, between Chestnut and Francisco, where a commodious dissecting room is especially provided for dental students, equipped with six glass-top tables, where thirty students may be accommodated at one time.

While the undergraduate departments of the University are clustered at Berkeley, the professional colleges are, for convenience of clinical study, conducted wholly in San Francisco. For this reason it is but right that they should be properly housed.

There are seven professors in the college, besides a corps of able and efficient special lecturers and demonstrators. The Professors will lecture each week, according to schedule of instruction published in this announcement. Wednesday afternoon of each week will be set apart, as heretofore, for clinical instructors, and two or more are on the schedule for each week during the term.

The dental laboratories are furnished with benches, lathes, furnaces for melting, forge, rolling mill, continuous gum furnaces, and all other requisites for thorough work. Each student is required to furnish his own instruments and tools, and will be

provided with a separate drawer in which they can be securely locked. Those who have instruments and laboratory tools and appliances should bring them; those who have not are advised to defer purchasing until they arrive. Lists of instruments and appliances requisite are designated elsewhere, copies of which will be furnished by the Superintendent. During the hours devoted to Operative or Mechanical Dentistry, competent Demonstrators will be present to assist the students in their operations. The Superintendent of the Infirmary will receive and assign patients to students, and will have general supervision of the Infirmary.

As per resolution of the National Association of Dental Faculties, this College requires an attendance upon three full regular courses in separate years before graduation.

## SCHEDULE OF STUDY.

*Session of 1894-95—Term commences September 3, 1894, and closes May 31, 1895.*

### Order of Lectures and Clinics.

#### FRESHMAN YEAR.

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.
9 A.M. to 11 A.M.	LABORATORY.	LABORATORY.	LABORATORY.	Microscopic Technic, Prof. D'ANCONA	LECTURE, Anatomy, Prof. WILLIAMS
10 A.M. to 11 A.M.	LECTURE, Physiology, Prof. D'ANCONA.				LABORATORY
11 A.M. to 12 M.	LECTURE, Osteology, Dr. FRASER.			Operative Technic, Dr. CARLTON.	LECTURE,* Physiology, Prof. D'ANCONA
1 P.M. to 3 P.M.	LABORATORY.	CHEMICAL LABORATORY, Dr. HODGEN.	1 to 3:30,  CLINICAL INSTRUCTORS.	LABORATORY.	LABORATORY.
3 P.M. to 4 P.M.					
4 P.M. to 5 P.M.			4:30 to 5:30, LECTURE, Mechanical Dentistry, Dr. SHARP.		
SATURDAY, 9 A.M. TO 12 M.					
LABORATORY CLINICS OR SURGICAL CLINICS AT CITY AND COUNTY HOSPITAL.					

\* First half of the Session.

Mondays and Fridays, from 1 to 4 P. M., Instruction in Freshman Laboratory, by Dr. Seager.

ORDER OF LECTURES AND CLINICS—*Continued.*

JUNIOR YEAR.

S.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	
1.	LECTURE, Anatomy, Prof. WILLIAMSON	CLINIC.	CLINIC.	CLINIC.	LECTURE, Anatomy, Prof. WILLIAMSON	
M.	CLINIC.				LECTURE.* Physiology, Prof. D'ANCONA	LECTURE, Physiology, Prof. D'ANCONA.
M.					LECTURE, Chemistry, Prof. LENGFELD.	
M.						
1.	QUIZ, Operative Dentistry.	LECTURE, Chemistry, Dr. HODGEN.	CLINICAL INSTRUCTORS. 1 to 3:30 P.M.	QUIZ, Operative Dentistry.	CLINIC.	
M.	CLINIC.					
M.		3:30 to 4:30. LECTURE, Orthodontia, Prof. GODDARD.		LECTURE, Materia Medica, Prof. SULLIVAN		Orthodontic Technic, Dr. NOBLE.
M.						
M.	LECTURE, Mechanical Dentistry, Dr. SHARP.	LECTURE, Pathology and Therapeutics, Prof. SULLIVAN				
M.	LECTURE, Operative Dentistry, Prof. DUNBAR.	DISSECTING.			LECTURE, Operative Dentistry, Prof. DUNBAR.	

SATURDAY, 9 A.M. TO 12 M.

OPERATIVE CLINICS AND HOSPITAL CLINICS IN SURGERY.

Second half of the term.



# ORDER OF LECTURES AND CLINICS.—*Continued.*

## SENIOR YEAR.

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.
9 A.M. TO 12 M.	CLINIC.	CLINIC.	CLINIC.	CLINIC.	CLINIC.
1 P.M. TO 2 P.M.		CLINIC.	CLINIC INSTRUCTORS, 1 to 3:30.	CLINIC.	LECTURE, Metallurgy, Dr. HODGEN
2 P.M. TO 4 P.M.	Practical Metallurgy, Division A, Dr. HODGEN.		LECTURE, Orthodontia, Prof. GODDARD.		Practical Metallurgy, Division B, Dr. HODGEN
4 P.M. TO 5 P.M.	CLINIC.	LECTURE, Pathology and Therapeutics, Prof. SULLIVAN.	3:30 to 4:30.  CLINIC. Orthodontia, Prof. GODDARD.	LECTURE, Materia Medica, Prof. SULLIVAN	LECTURE, Mechanical Dentistry, Dr. SHARP.
5 P.M. TO 6 P.M.	LECTURE, Operative Den- tistry, Prof. DUNBAR.	QUIZ, Surgery, Prof. LEWITT.		LECTURE, Surgery, Prof. LEWITT.	LECTURE, Operative De tistry, Prof. DUNBAR
SATURDAY, FROM 9 A. M. TO 12 M. OPERATIVE CLINICS AND HOSPITAL CLINICS IN SURGERY.					

Surgical Clinics will be held during the term by Prof. W. Lewitt whenever opportunity offers.

## REQUIREMENTS FOR ADMISSION.

Every candidate for admission must be eighteen years of age, must present to the Faculty satisfactory evidence of a good moral character, and must be examined as to his previous education and fitness to appreciate the technical study of Dentistry. The examinations will be chiefly in writing, and will embrace the following subjects. viz:

1. Arithmetic.
2. Geography.
3. English Grammar and Composition.
4. United States History.
5. Natural Philosophy. (Refer to Avery's Natural Philosophy, Peck's Ganot's Introductory Course in Natural Philosophy, or an equivalent.)
6. Elementary Chemistry. (Refer to Meade's Chemical Primer, Elliott and Storer's Chemistry, Avery's Chemistry, or an equivalent.)
7. Latin. (Refer to Smith's Principia Latina, Part I, or an equivalent.) A certificate of one year's satisfactory work in Latin will exempt.

Those who have never studied Latin will be allowed to take a condition in the subject, which must be removed before the examination for promotion.

Applicants intending to take this examination are advised to review their studies before doing so. Conditions imposed at the entrance examinations must be removed before the end of the term.

No matriculation examination will be required of those who have passed the entrance examination of the University of California, or of any other recognized college or university, nor of graduates of any recognized academy or high school, nor of those holding teachers' certificates.

In order to secure a release from this examination, the candidate must present his diploma or certificate of examination graduation.

Graduates and Undergraduates of Medicine desiring to qualify themselves for the practice of Dentistry, will be governed by the following rules of the National Association of Dental Faculties.

*Resolved*, That after the Session of 1890-91, a diploma from a reputable Medical College shall entitle its holder to enter the second course in Dental Colleges of this Association, but he may be excused from attendance upon lectures and examinations upon the following subjects: General Anatomy, Chemistry, Physiology, Materia Medica and Therapeutics. (Excelsior, 1890.)

*Resolved*, That the candidates for admission to the Colleges of this Association who are Undergraduates in a reputable Medical College may be admitted to the Junior Class, subject to the rules of examination governing admission to that class. (Saratoga, 1891.)

Candidates for admission to advanced standing will be governed by the following rules:

*Resolved*, That the Colleges of this Association may receive in the Junior or Senior Classes only such students as hold certificates having passed a satisfactory examination in the studies of the Freshman or Junior years, respectively; this certificate is to be a pledge to a College to which they may apply that a previous year has been properly spent in the institution from whence they come. (Chicago, 1885; changed, Saratoga, 1891.)

*Resolved*, That applicants for admission to advanced standing from foreign countries shall be required to furnish properly attested evidence of study, attendance upon lectures, etc., the same as required of applicants here, and they shall pass the intermediate examination. (Chicago, 1885; changed, Saratoga, 1891.)

Beginning with the Fifteenth Session (September 1, 1896) this College will adopt the following rules governing admission: viz:

#### MATRICULATION EXAMINATION.

Students desiring to matriculate are required to undergo examinations for admission, with the following exceptions, viz:

1. Applicants who present certificates of having successfully passed the examinations for admission to the College of Letters or the College

f Science of the University of California, or some other recognized University or College.

2. Applicants who present diplomas or certificates of graduation from the University of California, or some other recognized University or College. Applicants who present diplomas or certificates of graduation from recognized High Schools and Academies.

3. Applicants who present a diploma or certificate of graduation from a State Normal School of California, or of any other State or Territory.

4. Teachers' certificates will be accepted in lieu of examinations in the subjects covered by the certificates.

The examinations will cover the following subjects :

1. English. Every candidate will be required to write an English composition of not less than two hundred words, correct in spelling, punctuation, capital letters, grammar, and paragraphing.

2. Physics. An amount represented by Avery's Natural Philosophy, or Gage's Introduction to Physical Science.

3. Latin. Refer to Smith's Principia Latina, Part I, or an equivalent.

4. Elective Subjects. Each candidate for admission must also pass an examination in *two* of the following subjects : Chemistry, French, German, Elements of Algebra, Plane Geometry, Botany, Zoölogy.

---

### PRELIMINARY EXAMINATIONS.

There are two general examinations for entrance held each year, on fixed dates; these are conducted by some well-known educator, who is selected for this purpose annually. Students desiring to enter must present themselves on the dates named, as no other examination for entrance will be given.

The preliminary examinations for the session of 1895-96 will be held in San Francisco, at the College building, corner Market and Taylor Streets (entrance No. 18 Taylor Street), August 16th and 27th, at 9 o'clock A. M. Students desiring to present themselves at these examinations will please register their applications with the Clerk of the Faculty, at the College, No. 8 Taylor Street.

### THREE YEARS' STUDY.

The three years' course of study is arranged as follows :

*Freshman Year.*—Anatomy, with dissections ; Physiology and Histology, General and Dental ; Chemistry, with laboratory work ; Mechanical Dentistry ; Operative Technic ; Mechanical Technic ; Microscopic Technic.

Examinations will be held at the end of the year in all the above branches.

*Junior Year.*—Anatomy, with dissections ; Physiology, and Histology General and Dental ; Chemistry ; Mechanical Dentistry ; Operative Dentistry ; Pathology, Therapeutics, and Materia Medica ; Orthodontia and Orthodontia Technic.

Examinations will be held at the end of the year in all the above branches, and will be final in Anatomy, Physiology, Histology, and Chemistry.

*Senior Year.*—Operative Dentistry ; Mechanical Dentistry Orthodontia, with practical cases ; Metallurgy, with laboratory work ; Pathology, Therapeutics, and Materia Medica ; Surgery

---

### REQUIREMENTS FOR GRADUATION.

The candidate for the degree of Doctor of Dental Surgery must have attained the age of twenty-one years, and be of good moral character.

He shall have passed a satisfactory examination, oral, written and practical.

He shall have studied Dentistry *three* years, including the time spent in attending lectures.

He shall have attended three full courses in the Dental Department of the University of California, or two years in some other reputable Dental College, and the third or last in this College.

The candidate is required to dissect two quarters. He must treat thoroughly some patient requiring all the usual dental opera



ons, and bring such patient before the Professors of Operative  
entistry and Dental Pathology and Therapeutics. He must  
so complete at least one practical artificial denture, insert at  
ast one crown or piece of bridge work, and after completion,  
ing his patient before the Lecturer on Mechanical Dentistry at  
ast thirty days before the close of the term. He must treat  
ne case of irregularity, and, after the case is completed, bring  
s patient before the Professor of Orthodontia during the term.  
e must also prepare a specimen denture, to be deposited in the  
ollege collection, and present the same to the Lecturer on  
Mechanical Dentistry at least thirty days before the end of the  
rm. The operating and the work on the artificial cases must  
e done at the College building, and exclusively by the applicant  
r the degree.

*No student of this College will be permitted to practice dentistry  
legally while under the jurisdiction of the Faculty. Conviction  
f such practice will terminate the College career of the offender.*

After these requirements have been complied with, upon the  
commendation of the Faculty and approval of the Board of  
 Regents, the candidate shall receive the degree of Doctor of  
Dental Surgery.

---

#### SCHEDULE OF FEES.

Matriculation.....	\$ 5 00
Lecture Fees (each year).....	100 00
Practical Microscopy (Freshman)....	10 00
Practical Anatomy (first and second years).....	10 00
Fee for Final Examinations (not returnable).....	25 00

The fees for each term must be paid in advance.

---

#### TEXT BOOKS.\*

The following books will be needed during the course of  
study. Students are advised to procure Nos. 1, 2, 3, 4, 5, 7, and

---

\* The first-mentioned is the approved text-book.

14 of the subjoined list at the beginning of the first year, and to add the others before the Senior year :

1. Dental Dictionary, Harris, or Medical Dictionary, Dunglison or Thomas.
2. Anatomy, Gray (13th ed.), Morris, Quain, or Holden.
3. Physiology, Foster.
4. Mechanical Dentistry, Richardson or Harris.
5. Operative Dentistry, Harris, Taft, or Fillebrown.
6. Dental Chemistry, Mitchell.
7. Dental Anatomy, Black.
8. Orthodontia, Guilford.
9. Dental Metallurgy, Essig.
10. Dental Materia Medica and Therapeutics, Gorgas or Stockens.
11. Surgery, Moullin, or Am. Text-Book of Surgery.
12. Therapeutics, Wood, Biddle, or Bartholow.
13. Dental Pathology, Wedl.
14. Chemistry, Roscoe's Elementary Chemistry and Remsen's Introduction to the Study of Chemistry.
15. Materia Medica, United States Dispensatory or National Dispensatory.

#### ADDITIONAL BOOKS FOR REFERENCE.

Oral Surgery, Garretson.  
American System of Dentistry, Litch.  
Histology, Stricker, Frey, Beal, or Wythe.  
Microscopical Morphology, Heitzman.  
Pathology, Wagner.  
Oral Deformities, Kingsley.  
Nitrous Oxide, Guilford.  
Mechanical Dentistry, Haskell.  
Micro-Organisms of the Human Mouth, Miller.  
Irregularities, Farrar or Talbot.  
Anatomy and Pathology of the Teeth, Böedecker.

# OUTLINE OF THE COURSE OF STUDY.

---

## BIOLOGY.

Professor Joseph Le Conte will deliver a series of lectures on the Correlation of Vital with Physical and Chemical Forces; also, on the Homologies of the Vertebrate Skeletons.

---

## OPERATIVE DENTISTRY.

The course of instruction in this department will be as comprehensive and thorough as improved appliances and methods can make it, and will embrace both the Didactic and Clinical courses.

Intra and extra uterine development of the teeth will be fully considered from the *primary* germ to the final loss of the permanent teeth.

The work will consist of a graded system of instruction beginning with a comprehensive course in Operative Technics in the Freshman year including a systematic study of tooth sections with silhouettes, and progressive block work, which is a feature of the course in this College, presenting an opportunity for the highest type of dental manipulative training. This is followed in the Junior year with a course in Clinical Technics, assisted by lectures and quiz.

The Senior year is devoted to practical work in the infirmary, supplemented by lectures on the principles and practice of Operative Dentistry.

It will be the aim of the department to make the entire course of lectures from this chair as practical as possible, by a comparison of old and new methods, with a complete analysis of recent innovations in operative procedure, including the use of porcelain restorations.

Professor Dunbar will be assisted by Drs. H. P. Carlton and P. C. Erhardt, who will give three hours each week to a series of clinical lectures, with quiz for Junior students, and the course in Operative Technic, for Freshman students.

---

### MECHANICAL DENTISTRY.

The instruction in Mechanical Dentistry will embrace everything necessary to enable the dentist successfully to apply substitutes for lost dental organs.

Special reference will be made to the principles involved in the restoration of the natural functions of the teeth, namely: mastication, enunciation, and expression of the features; keeping in view always the health and the future usefulness of the living parts.

The instruction is divided into two courses, as follows:

*Freshman Course.*—Lectures on the treatment of the mouth and teeth preparatory to inserting artificial dentures; impression in wax and plaster; casts; the manufacture of artificial teeth, the selection and arrangement for special cases; application of atmospheric pressure to artificial dentures; properties and uses in the construction of dentures of wax, plaster, shellac, sandarach, rubber and celluloid.

*Junior and Senior Course.*—Lectures on the construction of instruments, of dies and counter-dies, of models of the mouth and of molds; construction of dentures on bases of gold, silver and aluminum; continuous gum work.

The construction of crown and bridge work will receive especial attention.

---

### ORTHODONTIA.

The subject of Orthodontia has been developed so much during the past ten years, that from occupying a minor part in the course devoted to Mechanical Dentistry, it now occupies the entire time of the former occupant of that chair.

Instruction will be both didactic and clinical. One hour each week will be devoted to lectures on the cause, prevention, and treatment of irregularities. In this course will be included several lectures on Comparative Dental Anatomy, and the making of obturators and artificial vels. The lectures will be illustrated by crayon and blackboard drawings, specimens of useful appliances, and casts of practical cases, a large number of which have accumulated from private practice and the College Infirmary. By means of the opaque stereopticon, casts can be projected on the screen for illustration.

Each week a clinical lecture will be given in the Infirmary, where each Senior student is required to treat a practical case of irregularity. As no two cases are alike, and each student can examine the cases of all the others, an exceptional opportunity is thus given for practical study.

Dr. Noble will give a course in Orthodontia Technic to the seniors, who will be required to draw wire and tubing, both round and square, make screws and nuts, springs, bands, and all essential forms of regulating appliances. This course will prepare them for the practical work of the Senior year.

---

### PHYSIOLOGY.

The lectures in this department, by Professor D'Ancona, embrace a consideration of both General and Special Physiology, including all that has been developed up to the present time, and illustrated by a complete series of colored drawings, prepared expressly for these lectures; besides which the vast collection of preparations and drawings of the Scientific Department at Berkeley are at the command of the Professor. Vivisections are practiced when necessary to demonstrate principles, and the microscope and stereopticon are freely used for illustrating important facts and principles.

The course embraces the lectures of two years, one year being devoted to the physiology of the nervous system and reproduction, the other to nutrition, respiration, circulation, etc.



22

A course of lectures will be given on Embryology and Histology, and fully illustrated by photo-micrograph reproductions, charts, etc. This course is introductory to the subjects of Anatomy and Physiology, and will consist of a full consideration of the following subjects: A general study in the development of the chick and other embryos; the theory of reproduction ova, segmentation, and the development of the three layers of the blastoderm; cellular morphology, including a comprehensive study of the biological cell, and the nature of protoplasm; the products of the epiblast, including the development of hair, nails, horns, hoofs, sudoriparous glands, and the enamel organ of the teeth.

The products of the mesoblast, showing the development of the connective tissue group, including the subject of calcification of bone, dentine, and enamel—illustrative of the latter many charts will be used in the comparative study of hard tissues,—and lastly the development of the teeth, will be fully considered by aid of a full line of illustrations from human and other embryos.

This will be supplemented by a course in practical work with the microscope, including Section Cutting, Staining, and Mounting, under the supervision of Prof. D'Ancona, assisted by Dr. Jas. G. Sharp, who will give a full course of laboratory training in Microscopic Technic, which will in future be a part of the Freshman curriculum, and must be completed in that year.

---

### SURGERY.

Professor William B. Lewitt, the Professor of the Principles and Practice of Surgery, will deliver one lecture each week on the Science and Art of Surgery, and devote one hour each week to the surgical clinic or recitation. His course will include General Surgical Principles and Pathology, and such lectures as may seem best adapted to students and practitioners of Dentistry. Also a series of lectures on Anæsthesia and Anæsthetics, both general and local, with clinical illustrations before the class. Particular

tion will be devoted to surgical diseases and injuries of the  
mouth, gums, and jaws, and the students will be instructed  
in their diagnosis, prognosis and treatment, both by lectures and  
clinical demonstrations.

---

### CHEMISTRY AND METALLURGY.

Professor A. L. Lengfeld, in his course, will deliver two  
lectures each week, devoting special attention to that part of  
chemistry which pertains more particularly to Dentistry. The  
lectures will be fully illustrated by means of all the necessary  
chemical and philosophical apparatus and numerous experiments.  
The nature, physical and chemical properties of the various  
medicines employed in Dentistry will be illustrated by the ex-  
hibition of crude drugs and pharmaceutical preparations, and by  
metallic plates and specimens.

The instruction in *Dental Metallurgy*, including the properties  
and uses of gold, silver, platinum, aluminum, zinc, lead, tin, and  
their alloys, and of iron and steel, will be made very complete.  
Special attention will be paid to refining and alloying gold, and  
to estimating its fineness.

---

### PRACTICAL CHEMISTRY.

Dr. J. D. Hodgen, Assistant to the Chair, will conduct a sys-  
tematic and practical course in Experimental Chemistry, Quali-  
tative Analysis, and Salivary Analysis. Each student is provided  
with a separate table and a complete set of apparatus and  
chemicals, and performs individually all experiments and re-  
actions. Two courses in Practical Chemistry are required.

I.—*First Year*.—Following Remsen's Introduction to the  
Study of Chemistry as a guide, each student will perform a series  
of experiments in which he will develop the main principles of the  
Science of Chemistry, and become familiar with the physical and  
chemical properties of the leading families of elements and their  
compounds.

II.—*Second Year.*—The experimental work will be continued. Special regard will be given to Analytical Chemistry and the analysis of the saliva.

---

### PRACTICAL METALLURGY.

Practical laboratory instruction will be given by Dr. Hodgen in working of the metals, and each student will be required to conduct all the usual operations in Dental Metallurgy, as well as to make experiments in new compounds and alloys. Considerable attention will be paid to the analysis and compounding of amalgam alloys.

A fee of one dollar will be charged to cover breakage and loss.

---

### ANATOMY.

Professor Williamson's course in Anatomy will be illustrated by demonstrations on the cadaver, and by both wet and dry preparations, models, manikins, drawings, and diagrams, and will include the general anatomy of the entire body, with the special topographical and surgical anatomy appertaining to the head and neck.

The dissecting room is spacious, well ventilated, lighted from above, and provided with modern conveniences. It is open daily throughout the year, under the superintendence of the Professor and Demonstrator of Anatomy. A supply of material is always procurable at small cost. When dissections are conducted in a diligent manner, the student is furnished with certificates stating the amount and part dissected. One of the Demonstrators will be present daily in the dissecting room during working hours, so that students will receive the proper attention and assistance.

An osteological room will be open during the term, where students will have the opportunity of studying the anatomy of bones and articulations. Special demonstrations will be conducted in this room for members of the Freshman class.

## DENTAL PATHOLOGY, THERAPEUTICS, AND MATERIA MEDICA.

The lectures delivered by the incumbent of this chair will embrace a full and comprehensive course on the following topics:

**1. General Pathology.**—In which will be discussed those general aspects of disease with which it is necessary to be acquainted in order to be able to understand the nature of any departure from health; causes of disease, symptoms, diagnosis, prognosis, temperaments, pathology of anæsthetics, irritation, determination, congestion, inflammation and its terminations, fusion, suppuration, ulceration, gangrene, sloughing, morbid growths, etc.

**2. Special Pathology.**—In which a critical examination will be made into the special causes of dental decay; dental hygiene and prophylaxis; disease of the enamel—of the dentine; diseases of the dentinal pulp—together with the causes of alveolar abscess—its stages and results; exostosis of the roots and alveoli; necrosis and exfoliation; diseases of the antrum; tumors, benign and malignant; diseases of the mucous membrane.

Neuralgia and other nervous affections will receive such attention as their importance may demand; and, besides, there will be presented such other special diseases as may in any degree be of interest to the dental practitioner, such as scurvy, scrofula, rachitis and other diseases of the bones.

**3. General Principles of Therapeutics.**—Under which head the general application of medicines will be noticed—their actions, constitutional and topical.

**4. Special Therapeutics.**—In connection with Dental Materia Medica; as incidentally related thereto.

**5. Materia Medica** will be taught by lectures and recitations.



## THE DENTAL LABORATORY.

The Dental Laboratory will be in charge of the Superintendent of Infirmary, who will assign patients to students, and, with the Demonstrators of Mechanical Dentistry, will give practical instruction in preparing the mouth for the insertion of artificial teeth, taking impressions, selecting and arranging teeth, and the construction of artificial dentures on bases of vulcanite, celluloid, silver, gold, etc.; also, in alloying, refining, and preparing the metals for use. Special attention will be given to continuous gum work. On account of the length of the term, the opportunities for practice in correcting irregularities of the teeth will be unsurpassed, and will receive their share of attention.

---

## THE DENTAL INFIRMARY.

The Operating Department will be under the immediate supervision of the Superintendent of Infirmary, who will have entire charge.

The rooms will be open during the forenoon of Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, and during the afternoon of each day except Saturday, until 5 o'clock, when all practical matters pertaining to Operative Dentistry will be fully dealt with by the Demonstrators, one of whom will always be present. The Infirmary will be open throughout the entire year, thus affording a practical course for first and second year students, unsurpassed by any similar institution. As there is always an excess of clinical material on hand, and there are six hundred and forty-eight hours per term (including three hours each Wednesday afternoon) devoted to practical consideration of diseases of the teeth and the adjacent parts, it is not difficult to estimate the advantages the students have in this department.

---

## DISSECTIONS.

The work in Practical Anatomy will be performed under the direction of the Demonstrator of Anatomy and his Assistant, in



the dissecting room of the College of Medicine, Toland Hall, Stockton Street, between Chestnut and Francisco. The dissecting room is open throughout the entire year; a full supply of material is always on hand at small cost, and is thoroughly preserved from decomposition. Upon the proper completion of the required dissections, the student is furnished by the Demonstrator with a certificate to that effect, which must be presented to the Dean for record.

The dissecting ticket (\$10) is good for the whole term—from January 1st to December 31st.

---

### CLINICAL INSTRUCTION.

During the course, Wednesday afternoon, from 1 to 3, will be devoted to Clinical lectures and operations by the Professors and Clinical Instructors.

---

### HOSPITALS.

All students in Dentistry will have the same facilities and opportunities enjoyed by the medical students in hospital practice and observation. They will have the freedom, as above represented, of the City and County Hospital and the City Receiving Hospital.

Medical and Surgical Clinical lectures are given by the Professors of the Medical Department of the City and County Hospital, Tuesdays, Thursdays, and Saturdays, from 9 to 11 A.M.; attendance upon which, though not a requirement, is recommended on account of the unsurpassed facilities for study of anæsthetic methods.

For further particulars on this subject, see Medical Department Announcement.

---

### LIBRARY AND MUSEUM.

A nucleus has been formed, from which it is hoped a large library and museum will grow. All members and friends of

the profession are invited to contribute books, pamphlets and journals, charts, anatomical, physiological and pathological specimens, casts of deformities and irregularities of the teeth and associate parts, or anything that will be useful or instructive.

These contributions will be placed in the library and museum, and marked with the name of the donors, if desired.

*As a separate library and reading room is now provided, a special request is made for donations of books and pamphlets.*

The Faculty desires to gratefully acknowledge donations of books, pamphlets, and specimens from Drs. W. E. Taylor, A. L. Lengfeld, W. A. Knowles, W. F. Lewis, J. M. Whitney, Jorge Arroyo, John Rabe, F. H. Metcalf, and the estates of the late Drs. E. F. Bunnell and W. B. Kingsbury.

L. L. DUNBAR, Dean of the Faculty,  
500 Sutter Street, San Francisco.

---

**N. B.—Boarding.**—The expense of living in the city of San Francisco is very reasonable. Good board, with room rent, may now be procured at the low rate of five dollars per week, at a convenient distance from the College building.

There is a free Public Library in San Francisco, of which students may have full benefit.

Upon arriving in the city, students will immediately register in the Dean's office, at the College building, No. 18 Taylor St.

TOOLS AND APPLIANCES REQUIRED BY FRESHMAN STUDENTS.

FOR LABORATORY WORK.

1 Articulator. White's plain line . . . . .	\$ .90
½ doz. Impression Trays, viz:	
2 Full Upper, A 1-3; 2 Full Lower, F 1-3;	
1 Partial Upper, C 13; 1 Partial Lower, G 13 }	1.50
1 Wax Spatula. Beals' pattern . . . . .	.50
1 Vulcanite File, double end . . . . .	.45
2 Vulcanite Finishers (Wilson's H. and R.), 1, 2, 3, wood handles	1.00
2 Corundum Wheels, large and small { No. 4, ¼ in. . . . .	.18
{ No. 7, ⅜ in. . . . .	.50
1 Felt Wheel for polishing. No. 3, 2¼ in. . . . .	.20
1 Felt Cone for polishing . . . . .	.20
1 Soft Brush Wheel for polishing. No. 26, 3 rows, 3 in. diameter	.35
1 Stiff Brush Wheel for polishing. 2 rows, 1½ in. diameter . . .	.15
1 Brass Blow-pipe, plain . . . . .	.20
1 Plaster Spatula, 4 in. . . . .	.25
1 Plaster Knife. No. 5, Buffalo . . . . .	.50
1 Gas Burner, with Spider . . . . .	.75
1 Chuck for U. S. Lathe . . . . .	.90
1 Lewis Cross-bar Vulcanizer (complete) . . . . .	16.00

\$24.53

## INSTRUMENTS FOR OPERATIVE TECHNIC.

1 Student's Instrument Case . . . . .	\$6.00
1 Coarse Half-round File . . . . .	.50
1 Fine Half-round File . . . . .	.35
1 Tooth Brush, white handle, medium . . . . .	.35
1 Broach Holder . . . . .	.75
1 doz. Jewelers' Broaches, fine . . . . .	.25
6 Medicine Bottles . . . . .	.40
1 pair Foil Carriers . . . . .	1.00
1 Jennings's Case Mallet . . . . .	2.00
1 Annealing Lamp and Shield . . . . .	.60
1 Chip Blower . . . . .	.40
1 Large Arkansas Stone . . . . .	.60
1 set Flagg's Plastic Instruments . . . . .	3.50
Slab and Spatula for Cements . . . . .	.25
6 Excavators, selected U. C. Set . . . . .	1.50
3 Chisels (1 straight-edge, 2 R. & L.), U. C. Set . . . . .	.75
3 Pluggers from College Set . . . . .	1.05

The items marked \* are used in subsequent courses.

\$20.25

All must be provided with the text-book, Black's Dental Anatomy.

N. B.—The above instruments and appliances must be procured by each student and submitted to the Superintendent before his seat is assigned.

## TOOLS AND APPLIANCES REQUIRED BY JUNIOR AND SENIOR STUDENTS.

### FOR LABORATORY WORK.

1 pair Plate Shears, S. S. White . . . . .	\$1.00
1 pair Plate Nippers, S. S. White . . . . .	2.75
1 pair Flat-nose Pliers . . . . .	.50
1 pair Round-nose Pliers . . . . .	.50
1 Plate Punch . . . . .	2.25
1 Half-round File, fine . . . . .	.25
1 Flat File, fine . . . . .	.25
1 Horn Hammer . . . . .	.38
1 Riveting Hammer, convex face . . . . .	.70
1 pair Long Soldering Pliers . . . . .	.10
1 Soldering Support . . . . .	.75
1 Swage . . . . .	
1 Artificial Plate Brush, Florence plate . . . . .	.50
1 Clasp Bender . . . . .	2.50
1 Triangular File . . . . .	.30
1 Steel Burnisher . . . . .	.50
1 Large Flat File . . . . .	.30
1 Jeweler's Saw-frame and Saws . . . . .	.60—
1 pair Calipers . . . . .	.12
Emery Cloth and Paper . . . . .	.50
Additional Corundum Wheels . . . . .	

### FOR ORTHODONTIA TECHNIC.

Screw Plate . . . . .	1.1
Draw Plate . . . . .	1.2
Pin Vice . . . . .	.6
Draw Tongs . . . . .	1.0

### JUNIOR AND SENIOR INSTRUMENTS FOR INFIRMARY.

*1 set of Pluggers, U. C. Set . . . . .	\$1.05†	\$8.4
*1 Jenning's Case Mallet . . . . .	2.00	2.0
*1 doz. Selected Excavators, U. C. Set . . . . .	1.50	2.5
*1 set 6 Chisels, U. C. Set . . . . .	.75	1.2
*1 set Amalgam Instruments (Flagg's) . . . . .	3.50	3.5
1 doz. Cavity Burrs for Engine . . . . .		2.2

† The items in this column should be in the outfit of each student from previous purchase.

¼ doz. Plug Finishing Burrs for Engine . . . . .	1.20
1 doz. Assorted Corundum and Rubber Points . . . . .	.50
1 Mandrel . . . . .	.25
¼ doz. Gold Finishing Files . . . . .	1.20
½ doz. R. Dam Clamps . . . . .	2.40
1 R. Dam Holder . . . . .	1.00
1 R. Dam Punch . . . . .	3.50
1 set R. Dam Weights . . . . .	1.00
1 pair Wedge Cutters . . . . .	2.25
1 pair Foil Carriers . . . . . 1.00	1.00
1 pair Foil Shears . . . . .	1.00
1 pair Clamp Forceps . . . . .	3.00
1 Mouth Mirror, magnifying . . . . .	1.25
1 Chip Blower . . . . . .40	.40
1 Water Syringe . . . . .	1.00
1 Separating Saw . . . . .	.75
1 set of Scalers . . . . .	2.50
1 Ball and Blade Burnisher . . . . .	.50
1 Large Arkansas Stone . . . . . .60	.60
1 package Cleansers, No. 4 . . . . .	1.25
1 Broach Holder . . . . . .75	.75
1 package Orange Wood . . . . .	.10
1 Slab and Spatula for Cements . . . . . .25 .50	.75
1 package Absorbent Cotton . . . . .	.20
1 package Spunk . . . . .	.20
1 Engine Head, Sleeve, Cable, and Hand-piece . . . . .	23.00
1 doz. 18 in. White Napkins . . . . .	
Perry or Ivory Separators—Ivory . . . . .	3.50

Students are requested to mark their property for identification.



# STUDENTS OF THE SESSION OF 1894-95.

## SENIOR CLASS.

NAME.	RESIDENCE.	PRECEPTOR.
Atwood, William Amos . . . .	Los Angeles, Cal.	Col. of Dentistry, U.C.
Axton, Frederick Richard . . .	Eureka, Cal.	Wm. E. Cook.
Barrett, Thomas Francis . . .	San Francisco, Cal.	Col. of Dentistry, U.C.
Bernard, Herbert Andrew . . .	San Francisco, Cal.	E. O. Cochrane, D.D.S.
Borger, John Nicholas . . . .	Campo Seco, Cal.	Col. of Dentistry, U.C.
Bowles, John Bennett . . . .	Napa, Cal.	Chas. Boxton, D.D.S.
Brown, James Albert . . . .	San Francisco, Cal.	A. V. Brown.
Brun, Louis Etienne, B. S. . .	Nines, France . .	Col. of Dentistry, U.C.
Cannon, Edward D'Arcy . . .	Oakland, Cal.	J. S. Porter.
Carpenter, Byron Leonard . . .	Poplar, Cal.	F. L. Argall.
Coleman, Ralph Charles . . .	San Francisco, Cal.	Col. of Dentistry, U.C.
Coney, David Milton . . . .	San Francisco, Cal.	N. T. Coulson, D.D.S.
Dodson, Eugene Morris . . . .	Cambria, Cal.	Col. of Dentistry, U.C.
Fitch, Oscar Plank . . . . .	Oakland, Cal.	F. J. Saxe, D.D.S.
Fitzgibbon, James Garrett . . .	San Francisco, Cal.	Col. of Dentistry, U.C.
Flood, Arthur Morris . . . .	San Francisco, Cal.	J. N. Blood, D.D.S.
Ford, Arthur James . . . . .	Taylorsville, Cal.	W. Z. King and C. I. Brown, D.D.S.
Hale, Reuben Lyon . . . . .	Martinez, Cal.	Col. of Dentistry, U.C.
Halsted, Eminel Potter . . . .	San Francisco, Cal.	Col. of Dentistry, U.C.
Hardy, John Ross . . . . .	Oakland, Cal.	Col. of Dentistry, U.C.
Hauselt, Charles Peter . . . .	San Francisco, Cal.	Col. of Dentistry, U.C.
Holloway, Edward Shortridge .	College City, Cal.	Col. of Dentistry, U.C.
Jeffrey, Joseph Arthur . . . .	San Francisco, Cal.	M. F. Gabbs, D.D.S.
Ludlow, William Berridge, Jr..	Oakland, Cal.	S. P. Tate.
McCan, Francis Ashbury . . .	Lathrop, Cal.	Frank Burton.
Morris, Amiel . . . . .	Woodland, Cal.	J. D. Hodgen, D.D.
O'Connell, Robert Emmett . .	Gold Hill, Nev.	Chas. Boxton, D.D. and H. C. Davis.
Pearce, Clarence Hubert . . .	Watsonville, Cal.	Col. of Dentistry, U.
Porterfield, Robert Henry . .	San Francisco, Cal.	Col. of Dentistry, U.
Sawyer, Fred Earl . . . . .	Oakland, Cal.	I. S. Halsey.
Sichel, Leo . . . . .	San Francisco, Cal.	Col. of Dentistry, U.
Singleton, Walter E. . . . .	San Jose, Cal.	E. G. Smith, D.D.S.
Smith, Robert Washington . .	Oakland, Cal.	Col. of Dentistry, U.
Stephenson, Harley Howard .	Sacramento, Cal.	Col. of Dentistry, U.

NAME.	RESIDENCE.	PRECEPTOR.
rain, Edward Lord . . . .	San Francisco, Cal.	Col. of Dentistry, U.C.
obits, Arthur Livingston . .	Petaluma, Cal. . .	Col. of Dentistry, U.C.
achhorst, Newton Booth . .	Sacramento, Cal. .	Col. of Dentistry, U.C.
aterman, Edwin Ruthven . .	San Francisco, Cal.	G. H. Worrell, D.D.S.
nite, Frederick Heilbron . .	San Francisco, Cal.	S. Southworth and J. S. Porter.

#### JUNIOR CLASS.

brahm, Henry . . . . .	San Francisco, Cal.	Col. of Dentistry, U.C.
abay, William Henry . . . .	Oakland, Cal. . .	Col. of Dentistry, U.C.
nes, George Frederick . . . .	Oakland, Cal. . .	J. T. Rowand, D.D.S.
ers, Miss Marilda Jane . . .	Eureka, Cal. . . .	W. E. Cook, D.D.S.
ker, Daniel Boone . . . . .	Sacramento, Cal. .	Ohio Col. Dent. Sury.
ird, Frederick Guernsey . . .	Lodi, Cal. . . . .	Col. of Dentistry, U.C.
ird, Mrs. Mary Louise . . . .	Stockton, Cal. . .	Col. of Dentistry, U.C.
nnett, George Eben . . . . .	Santa Cruz, Cal. .	F. W. Bliss, D.D.S.
eseke, Bertram Carl . . . . .	Santa Barbara, Cal.	M. W. Hollingsworth.
nnel, Franklin Calvin . . . .	Tres Pinos, Cal. .	B. F. Simmons, D.D.S. and W. A. Turum.
wman, Charles Harold . . . .	Santa Cruz, Cal. .	C. L. Bliss, D.D.S.
ferata, Albert . . . . .	San Francisco, Cal.	Col. of Dentistry, U.C.
rrington, Paul Tulane . . . .	Oakland, Cal. . .	Col. of Dentistry, U.C.
appel, Harry George . . . . .	San Jose, Cal. . .	G. F. Nevins, D.D.S.
irk, William Nathan . . . . .	Watsonville, Cal. .	C. L. Butterfield.
anz, Frank Herman . . . . .	San Francisco, Cal.	J. F. Twist.
ball, Miss Medora Vaux . . .	San Francisco, Cal.	Col. of Dentistry, U.C.
oft, Stephen . . . . .	Los Angeles, Cal. .	Chicago Col. Den. Sur.
an, Jacob . . . . .	Boise City, Idaho .	Col. of Dentistry, U.C.
nningham, Stephen Joseph . .	San Francisco, Cal.	Col. of Dentistry, U.C.
vis, Herold Edgeworth* . . .	San Francisco, Cal.	H. C. Davis.
vis, William Edward . . . . .	Sausalito, Cal. . .	Col. of Dentistry, U.C.
her, Ludwig William . . . . .	San Jose, Cal. . .	F. K. Ledyard.
rest, James Morton, Jr. . . .	Los Gatos, Cal. . .	Col. of Dentistry, U.C.
wler, Arthur A. . . . .	San Jose, Cal. . .	Col. of Dentistry, U.C.
dge, H. Edward . . . . .	San Francisco, Cal.	T. N. Iglehart.
man, Charles Daniels . . . . .	Oakland, Cal. . .	Col. of Dentistry, U.C.
enbaum, Lawrence . . . . .	San Francisco, Cal.	Col. of Dentistry, U.C.
nson, Herman Pierce . . . . .	San Jose, Cal. . .	Col. of Dentistry, U.C.
lan, Ralfe Milhouz . . . . .	Zanesville, O. . .	Col. of Dentistry, U.C.
ms, Rich'd Geo. Cornelius . .	Oakland, Cal. . .	Col. of Dentistry, U.C.

Not in attendance.

NAME.	RESIDENCE.	PRECEPTOR.
Hart, Charles Edwin . . . . .	Pacific Grove, Cal.	Col. of Dentistry, U.C.
Harth, Arthur Philip . . . . .	Grant Pass, Or.	W. H. Flanagan.
Harris, George Morgan . . . . .	Oakland, Cal.	Col. of Dentistry, U.C.
Hawley, Alexander Hamilton . . . . .	Sacramento, Cal.	Col. of Dentistry, U.C.
Haynes, George Henry . . . . .	Victoria, B. C.	T. J. Jones.
Hilliard, Samuel William . . . . .	Lodi, Cal.	Col. of Dentistry, U.C.
Hoyt, Fletcher S.* . . . .	Oakland, Cal.	Chas. Boston, D.D.S.
Husted, Guy Brown . . . . .	Saratoga, Cal.	Col. of Dentistry, U.C.
Jordan, Thomas Mercer . . . . .	Oakland, Cal.	Col. of Dentistry, U.C.
Leviston, Frank Edward*. . . . .	San Rafael, Cal.	Col. of Dentistry, U.C.
Lundborg, Konrad Magnus . . . . .	San Francisco, Cal.	Dr. J. A. W. Lundborg.
Maynard, Stephen Cholmeley . . . . .	San Jose, Cal.	Dr. F. L. Argall.
MacDonald, Miss Naoma Gae . . . . .	San Francisco, Cal.	Leander Van Orden, M.D., D.D.S.
Morden, Thomas Snelling . . . . .	Boise City, Idaho	H. B. Copsey, D.D.S.
Pless, Fred Gustave . . . . .	San Francisco, Cal.	N. T. Coulson, D.D.S.
Porter, Charles Bruce, Jr. . . . .	San Francisco, Cal.	Col. of Dentistry, U.C.
Raymond, George Washington . . . . .	San Francisco, Cal.	E. N. Short, D.D.S.
Reynolds, Harry Clendenin . . . . .	Upper Lake, Cal.	Col. of Dentistry, U.C.
Richards, Joseph Ignatius . . . . .	San Francisco, Cal.	Martin F. Dunn, D.D.S.
Roth, Leon Joseph . . . . .	Los Angeles, Cal.	Drs. White and Town- send.
Rowland, Mrs. Amy Gilbert . . . . .	Grafton, N. S. W.	Col. of Dentistry, U.C.
Sawyer, Miss Anna Martin . . . . .	San Francisco, Cal.	Col. of Dentistry, U.C.
Seager, John Herbert, A.B. . . . .	Constantinople, T.	Col. of Dentistry, U.C.
Smith, Frank Joseph . . . . .	San Jose, Cal.	J. L. Asay, M.D.
Smith, Robert Edward . . . . .	San Jose, Cal.	L. Finigan.
Stallman, George Edward . . . . .	San Francisco, Cal.	Col. of Dentistry, U.C.
Stich, Benjamin Mitchell . . . . .	San Francisco, Cal.	B. M. Gunsburger, D.D.S., and E. W. Pratt, D.D.S.
Thomas, Montgomery . . . . .	Fresno, Cal.	Col. of Dentistry, U.C.
Tobriner, Oscar . . . . .	San Francisco, Cal.	Col. of Dentistry, U.C.
Todd, Clifford . . . . .	Sacramento, Cal.	F. F. Tebbets.
Tompkins, George Henry . . . . .	Bethany, Cal.	Col. of Dentistry, U.C.
Treyer, Edmond Joseph . . . . .	San Francisco, Cal.	L. Neumann, D.D.S.
Ware, William Henry . . . . .	San Francisco, Cal.	Col. of Dentistry, U.C.
Webster, Lauren David . . . . .	San Jose, Cal.	C. K. Fleming.
Weldon, Clyde Allan . . . . .	San Francisco, Cal.	C. E. Post, D.D.S.
Westphal, Edward William . . . . .	San Francisco, Cal.	O. F. Westphal, D.D.S.
White, Richard Montgomery . . . . .	San Francisco, Cal.	Col. of Dentistry, U.C.

\* Not in attendance.

# FRESHMAN CLASS.

NAME.	RESIDENCE.	PRECEPTOR.
Alexander, Milton Oscar . . . .	San Francisco, Cal.	O. P. Myers.
Ashley, Julian Woods . . . .	San Francisco, Cal.	A. A. Gaston.
Atwater, Henry Cook . . . .	Oakland, Cal.	Col. of Dentistry, U.C.
Atkins, John Hugh . . . .	San Francisco, Cal.	O. F. Westphal, D.D.S.
Belden, Keney Roy . . . .	Oakland, Cal.	R. H. Cool, D.D.S.
Beers, Miss Mabel Lucille . . . .	San Francisco, Cal.	Col. of Dentistry, U.C.
Bosqui, Benjamin Avery . . . .	Ross, Cal.	Col. of Dentistry, U.C.
Carter, Frederick Russell . . . .	Sonora, Cal.	H. F. Sullivan, D.D.S.
Clay, Edwin Andrews . . . .	San Buenventura	Dr. H. M. & J. M. Staire
Coffin, Charles Alfred . . . .	Reno, Nevada	Col. of Dentistry, U.C.
Cushing, Stephen Russell . . . .	San Jose, Cal.	D. E. Nash, D.D.S.
Collins, Asa Weston . . . .	Oakland, Cal.	Col. of Dentistry, U.C.
Colburn, Orville Mirtland . . . .	Woodland, Cal.	Col. of Dentistry, U.C.
Donnelly, George Samuel . . . .	San Francisco, Cal.	Col. of Dentistry, U.C.
Delucchi, John . . . .	Jackson, Cal.	Col. of Dentistry, U.C.
Durham, Judge Haley . . . .	Irvington . . . .	F. Z. Pickery, D.D.S.
Emery, Charles Abbott . . . .	San Francisco, Cal.	H. C. Davis.
Fiske, Edward Sewell . . . .	San Francisco, Cal.	M. F. Gabbs, D.D.S.
French, Howard West . . . .	Oakland, Cal.	D. S. Richardson.
Gilbertson, James Coolidge . . . .	Oakland, Cal.	Col. of Dentistry, U.C.
Gilson, Ray Edson . . . .	Oakland, Cal.	Col. of Dentistry, U.C.
Harnden, Frederick William . . . .	San Francisco, Cal.	Dr. S. H. Tolhurst.
Harvey, William Hardgrave . . . .	Salinas, Cal.	Col. of Dentistry, U.C.
Higgins, Theo. Shelton . . . .	Worcester, Mass.	Col. of Dentistry, U.C.
Holladay, William Robin . . . .	Pomona, Cal.	H. W. Brodbeck, D.D.S.
Houck, Fred. . . . .	Ashland, Or.	Col. of Dentistry, U.C.
Jeacock, William Rema . . . .	Beloit, Kan.	S. W. Kincaid, D.D.S.
Joward, Amos* . . . .	Vallejo, Cal.	J. J. Armstrong.
Jughes, Walter Renwick . . . .	Fresno, Cal.	Col. of Dentistry, U.C.
Jerrington, William Merced . . . .	Fresno, Cal.	B. B. Cory, D.D.S.
Jrvis, Chas. Fitz Howard . . . .	Oakland, Cal.	Col. of Dentistry, U.C.
Jones, Paul Clinton . . . .	Ross, Cal.	Col. of Dentistry, U.C.
Johnson, Frank D. . . . .	Chico, Cal.	Col. of Dentistry, U.C.
Jane, Robert Frank* . . . .	San Francisco, Cal.	Col. of Dentistry, U.C.
Jeffee, Edmond Douglas . . . .	San Francisco, Cal.	H. G. Young.
Jerwin, Louis Joseph . . . .	West Side, Cal.	Col. of Dentistry, U.C.
Jeiser, George William . . . .	Cloverdale, Cal.	Col. of Dentistry, U.C.

\* Not in attendance.



NAME.	RESIDENCE.	PRECEPTOR.
Kelley, Norman Douglas*	San Francisco, Cal.	H. C. Davis.
Louisson, William . . . . .	Honolulu, H. I.	Col. of Dentistry, U.C.
Marckres, Clair Cutting . . . .	San Jose, Cal.	Col. of Dentistry, U.C.
Morris, Julius Isador . . . . .	Los Angeles, Cal.	J. A. Cronkhite.
Millar, James B. F.* . . . . .	San Francisco, Cal.	C. H. Bell, D.D.S.
McKee, Alex. Ignatius . . . . .	Oakland, Cal.	Col. of Dentistry, U.C.
McCarthy, Chas. Joseph . . . .	Napa, Cal.	E. M. Parker.
Merriman, William Cole* . . . .	Oakland, Cal.	A. F. Merriman.
Morse, Harry Wadsworth . . . .	San Francisco, Cal.	Col. of Dentistry, U.C.
Pearce, Frederick Bright . . . .	San Jose, Cal.	Frank L. Argall.
Plunkett, James Arthur . . . . .	Oakland, Cal.	Col. of Dentistry, U.C.
Quirk, Thomas Hopkins . . . . .	Gold Hill, Nev.	Col. of Dentistry, U.C.
Robinson, Eugene Chas.* . . . .	San Francisco, Cal.	Col. of Dentistry, U.C.
Robinson, Miss Frank Oniska . .	Petaluma, Cal.	Col. of Dentistry, U.C.
Rulison, Miss Helen May . . . .	Reno, Nev.	Col. of Dentistry, U.C.
Russell, Edward Weld . . . . .	Martinez, Cal.	W. A. Moore.
Reich, Chas. Louis . . . . .	San Francisco, Cal.	Col. of Dentistry, U.C.
Ruthrauff, Henry T.* . . . . .	San Francisco, Cal.	Col. of Dentistry, U.C.
Scott, Miss Fannie Elsie . . . .	Oakland, Cal.	S. P. Tate, Jr.
Smyth, Thos. Ustick . . . . .	San Rafael, Cal.	Col. of Dentistry, U.C.
Stealey, Edwin Matthew . . . .	San Francisco, Cal.	Col. of Dentistry, U.C.
Smith, Robert Edward . . . . .	San Jose, Cal.	Col. of Dentistry, U.C.
Stone, Dykeman Hadley . . . . .	San Luis Obispo	Col. of Dentistry, U.C.
Stiles, Henry . . . . .	San Jose, Cal.	Col. of Dentistry, U.C.
Summer, Charles Morris . . . . .	San Jose, Cal.	J. L. Asay, M.D.
Troy, Edgar S.* . . . . .	Oakland, Cal.	Col. of Dentistry, U.C.
Thomas, David Pickard . . . . .	Brighton, Engl'd.	Col. of Dentistry, U.C.
Travers, Harry Pierce . . . . .	Oakland, Cal.	Col. of Dentistry, U.C.
Upton, Edward Albright . . . .	Oakland, Cal.	Col. of Dentistry, U.C.
Wachs, Martin . . . . .	Oakland, Cal.	W. E. Brooks.
Wanz, Arthur Henry *	San Francisco, Cal.	Henry Sylvester, Jr., D.D.S.

#### SPECIAL STUDENT.

Price, Evan, U. S. A. . . . .	San Francisco, Cal.	Col. of Dentistry, U.C.
-------------------------------	---------------------	-------------------------

#### Summary.

SENIORS . . . . .	39
JUNIORS . . . . .	68
FRESHMEN . . . . .	68
SPECIAL STUDENT . . . . .	1
Total . . . . .	176

\* Not in attendance.



## GRADUATES.

### 1882.

Thomas Watson Hall . . . . .	Oakland, California
Charles Wesley Hibbard . . . . .	San Francisco, California
Thomas Morffew . . . . .	San Francisco, California
Henry John Plomteaux . . . . .	Oakland, California
Charles Wesley Richards . . . . .	San Francisco, California
Gustave William Sichel, M. D. . . . .	San Francisco, California
William Henry Stanley . . . . .	San Francisco, California
August Van Crombrughe† . . . . .	San Francisco, California

### 1883.

John Nelson Blood* . . . . .	Greenville, California
Charles Boxton . . . . .	San Francisco, California
Maria Angelina Burch* . . . . .	Pescadero, California
Edward Overton Cochrane . . . . .	San Francisco, California
Russell Hopkins Cool . . . . .	Oakland, California
Milton Francis Gabbs . . . . .	San Francisco, California
William Edmund Price . . . . .	San Francisco, California

### 1884.

George Washington Cool . . . . .	Guatemala, Central America
John Michael Dunn . . . . .	Oakland, California
Archibald Duncan Gleaves . . . . .	Anderson, California
Robert Nicol . . . . .	India
Gustave Carl Reitzke . . . . .	San Francisco, California
William Henry Simmons . . . . .	Oakland, California
Almer Joseph Weldon . . . . .	Vacaville, California

### 1885.

Henry Sylvester Bettis . . . . .	Boise City, Idaho
George Botsford . . . . .	San Francisco, California
Daniel Barratt Cate . . . . .	Quincy, California
Eathaniel Thomas Coulson . . . . .	San Francisco, California
George Ihmer Drucker . . . . .	San Francisco, California
William Ellis Fitzpatrick . . . . .	San Francisco, California

\* Deceased.

† Name changed to August Vam Crom by Superior Court, San Francisco, July 22, 1889.

Walter Robert Henderson . . . . . Stockton, California  
John Adams Douglas Hutton . . . . . West Berkeley, California  
Franklin Pancoast . . . . . San Francisco, California  
Charles Theodore Rodolph . . . . . Oakland, California  
Frederick Judson Saxe, A. M. . . . . Oakland, California  
Joseph Schneider . . . . . San Salvador, Central America  
Henry Sylvester, Jr. . . . . San Francisco, California

**1886.**

Harry Putnam Carlton . . . . . San Francisco, California  
Hector Ludovic Couret . . . . . Sonora, Mexico  
Martin Joseph Dunn . . . . . San Francisco, California  
Nicholas Anton Givovich . . . . . Ragusa, Austria  
John Gow Humphrey . . . . . San Francisco, California  
Thomas Harvey Morris . . . . . San Francisco, California  
William Cormack Reith . . . . . Sacramento, California  
Joseph Emil Sand . . . . . San Francisco, California  
Benjamin Franklin Simmons . . . . . Oakland, California  
William Oltman Stuttmeister . . . . . Redwood City, California  
William Grover Sylvester . . . . . San Francisco, California

**1887.**

Edward Livingston Davis . . . . . San Jose, California  
Joseph Dupuy Hodgen . . . . . San Francisco, California  
Harold McKean Jones . . . . . Cloverdale, California  
Edward Maldonado . . . . . San Francisco, California  
Robert Eugene Payne . . . . . San Francisco, California  
Charles Edgar Post . . . . . San Francisco, California  
Arthur Theodore Regensburger . . . . . San Francisco, California  
George Frederick Rodden . . . . . San Francisco, California  
George Walter Rodolph . . . . . Oakland, California  
Granville Eugene Shuey . . . . . East Oakland, California  
Jennie Martin Simpson . . . . . San Francisco, California  
Otto Frank Westphal . . . . . San Francisco, California

**1888.**

Ira Hart Chapman . . . . . Tacoma, Washington  
Samuel Alston Hackett . . . . . Oakland, California  
Frank Lewis Hultberg . . . . . San Francisco, California  
Philander McCargar . . . . . Oakland, California  
Joseph Pfister . . . . . Suisun, California  
William George Shankey . . . . . San Francisco, California  
Edward Nelson Short . . . . . San Francisco, California  
Charles Sawtelle Weston . . . . . Oakland, California

1889.

Milton Ross Gambitz . . . . .	San Francisco, California
Benjamin Mitchell Gunzberger . . . . .	San Francisco, California
William Alexander Meyer . . . . .	San Francisco, California
Warren Guice Mobley . . . . .	Oakland, California
Dorr Nash . . . . .	San Jose, California
Andrew John Powell . . . . .	Haywards, California
Edward William Pratt . . . . .	San Francisco, California
Frederick Courtland Sutliff . . . . .	Sacramento, California
Arthur Henry Wallace . . . . .	San Francisco, California

1890.

Frederick Harrison Allbright . . . . .	Red Bluff, California
Gotthard Sigismund Backman . . . . .	San Francisco, California
Frank Drake Burleson . . . . .	Santa Cruz, California
Paul Charles Erhardt . . . . .	San Francisco, California
William T. Heider . . . . .	Oakland, California
Charles Alex Herrick . . . . .	Jackson, California
Paul Robert Jacobs . . . . .	San Francisco, California
Charles Ashby Litton . . . . .	San Francisco, California
Valter Romain Lovegrove . . . . .	San Francisco, California
George Martin . . . . .	Berlin, Germany
Clark Harrison Rawson . . . . .	Jamestown, New York
Richard McCargar . . . . .	San Francisco, California
John Matthew Redmond . . . . .	Santa Rosa, California
David Warren Rulison . . . . .	Reno, Nevada
William Fuller Sharp . . . . .	San Francisco, California
Albert John Sylvester . . . . .	San Francisco, California

1891.

Josephine Wright Armstrong . . . . .	San Francisco, California
Charles Franklin Bauer . . . . .	San Francisco, California
Charles Henry Bell . . . . .	San Francisco, California
John Millard Blodgett . . . . .	Lodi, California
Cecil Corwin . . . . .	Oakland, California
D. Carter Elliot . . . . .	Martinez, California
Philip Foster Frear . . . . .	Oakland, California
Charles Lawrence Griswold . . . . .	San Francisco, California
Charles George Hyde*	Merced, California
Edwin Chandler Hyde . . . . .	Phoenix, Arizona
William Martin . . . . .	Oakland, California
John Patrick McCarthy . . . . .	Oakland, California

---

\* Deceased.

Charles Avan Meek . . . . .	San Francisco, California
Albert Dean Elmore Miles . . . . .	San Francisco, California
Robert Forrester Millar . . . . .	Alameda, California
Robert Isaac Moore . . . . .	San Francisco, California
Howard Delos Noble . . . . .	San Francisco, California
Forrest Hoy Orton . . . . .	St. Paul, Minnesota
Frank Harry Phillips . . . . .	Hollister, California
Harry Griffin Richards . . . . .	San Francisco, California
Harold Lawrence Seager . . . . .	San Francisco, California
Harry Howard Shaw . . . . .	San Francisco, California
George Newins Van Orden . . . . .	San Francisco, California
Gustavus Adolphus Weyer . . . . .	Modesto, California

**1892-93.\***

Edmund James Alger . . . . .	Santa Cruz, California
Reginald Heber Allen . . . . .	Lodi, California
Jorge Arroyo . . . . .	Guatemala, Central America
Frank Parker Ashworth . . . . .	San Jose, California
William Nelson Avery . . . . .	San Jose, California
Augustus Griffin Bennett, Jr. . . . .	San Jose, California
Paul Stirling Coke . . . . .	San Jose, California
Emile William Davis . . . . .	Melbourne, Australia
Cecil Chalmers Dennis . . . . .	San Francisco, California
Albert Terrill Derby . . . . .	San Francisco, California
William Caughlin Grove . . . . .	Oakland, California
Wilbur Hanford Halsey . . . . .	Oakland, California
George Herman Huddy . . . . .	Honolulu, H. I.
Oscar Litchfield . . . . .	
William Andrew McQuitty . . . . .	San Francisco, California
George Hubbard Meredith . . . . .	
Edward Thomas Mervy . . . . .	Oakland, California
Edward Franklin Parr . . . . .	Chico, California
Corydon B. Root . . . . .	San Francisco, California
Ernest Frederick Schlott . . . . .	San Francisco, California
Frederick Schumacher . . . . .	San Jose, California
Walter Kendal Scott . . . . .	San Francisco, California
James Graham Sharp . . . . .	San Francisco, California
Allen Holman Suggett, B. S. . . . .	Marysville, California
Harry Francis Sullivan . . . . .	Oakland, California
Robert Lee Taylor . . . . .	San Francisco, California
William Emmet Taylor . . . . .	Oakland, California
Joseph Treleaven Thomas . . . . .	Gold Hill, Nevada

---

\* Session changed from summer to winter.

**1893-94.**

Edward Ellsworth Baird . . . . .	Lodi, California
William Henry Cavell . . . . .	Carson, Nevada
McCoy Chappell . . . . .	Lompoc, California
Conrad Deichmiller . . . . .	San Francisco, California
John Alvin Gibbon . . . . .	San Francisco, California
Gilbert Fuller Graham . . . . .	San Francisco, California
Robert Frederick Gray . . . . .	San Francisco, California
Walter Simpson Jewell . . . . .	Oakland, California
James William Likens . . . . .	San Francisco, California
William O'Rourke . . . . .	Oakland, California
Henry Powell, Jr. . . . .	Haywards, California
Walter Judson Taylor . . . . .	Sacramento, California
Alexander Van Orden, M. D. . . . .	San Francisco, California
Thomas Augustus Vogel . . . . .	San Francisco, California
David John Vogelmann . . . . .	Vallejo, California
Walter Irving Wilcox . . . . .	San Francisco, California
Charles Custar Wood . . . . .	Modesto, California
William Henry Wadsworth . . . . .	Ukiah, California

**1894-95.**

William Amos Atwood . . . . .	Los Angeles, California
Frederick Richard Axton . . . . .	Eureka, California
Thomas Francis Barrett . . . . .	San Francisco, California
Herbert Andrew Bernard . . . . .	San Francisco, California
John Nicholas Borger . . . . .	Campo Seco, California
John Bennett Bowles . . . . .	Guatemala, Central America
James Albert Brown . . . . .	San Francisco, California
Louis Ettienne Brun, B. S. . . . .	San Francisco, California
Ernest Leonard Carpenter . . . . .	Poplar, California
Alfred Charles Coleman . . . . .	San Francisco, California
David Milton Coney . . . . .	San Francisco, California
Regene Morris Dodson . . . . .	San Francisco, California
Isaac Plank Fitch . . . . .	Oakland, California
James Garrett Fitzgibbon . . . . .	San Francisco, California
Arthur Morris Flood . . . . .	San Francisco, California
Arthur James Ford . . . . .	Taylorville, California
Leuben Lyon Hale . . . . .	Martinez, California
Minel Potter Halsted . . . . .	San Francisco, California
John Ross Hardy . . . . .	Oakland, California
Charles Peter Hauselt . . . . .	San Francisco, California
Edward Shortridge Holloway . . . . .	College City, California



Joseph Arthur Jeffrey . . . . .	San Francisco, California
William Berridge Ludlow . . . . .	Oakland, California
Frances Asbury McCan . . . . .	Lathrop, California
Amiel Morris . . . . .	Woodland, California
Robert Emmett O'Connell . . . . .	San Francisco, California
Clarence Hubert Pearce . . . . .	Watsonville, California
Robert Henry Porterfield . . . . .	San Francisco, California
Fred Earl Sawyer . . . . .	Oakland, California
Leo Sichel . . . . .	San Francisco, California
Walter E. Singleton . . . . .	San Jose, California
Robert Washington Smith . . . . .	Oakland, California
Harley Howard Stephenson . . . . .	Sacramento, California
Edward Lord Strain . . . . .	San Francisco, California
Arthur Livingston Tibbitts . . . . .	Petaluma, California
Newton Booth Wachhorst . . . . .	Sacramento, California
Edwin Ruthven Waterman . . . . .	San Francisco, California
Frederick Heilbron White . . . . .	San Francisco, California

N. B.—Graduates are requested to forward correct address to the Dean.

---

## COMMENCEMENT, 1894-95.

---

The Thirteenth Commencement Exercises of the College of Dentistry of the University of California were held at Od Fellows' Hall, San Francisco, Thursday, June 13, 1895, at o'clock P. M.

### ORDER OF EXERCISES.

OVERTURE, "Guillaume Tell," . . . . . *Rossini*

PRAYER, . . . . . REV. W. W. BOLTON, A. M.

SELECTION, "Maritana," . . . . . *Wallace*

ADDRESS ON BEHALF OF THE FACULTY,  
WILLIAM CORMACK REITH, D. D. S., '86.

PARAPHRASE, "How Fair Thou Art!" . . . . . *Nesvadba*

CONFERRING DEGREES OF DOCTOR OF DENTAL SURGERY,  
MARTIN KELLOGG, A. M., LL. D., President of the University.

CONCERT WALTZ, "Beautiful Rhine," . . . . . *Kela-Bela*

BENEDICTION, . . . . . REV. W. W. BOLTON, A. M.

# THE ALUMNI ASSOCIATION

OF THE

COLLEGE OF DENTISTRY, UNIVERSITY OF CALIFORNIA.

---

The objects of this Society are to sustain and advance the prosperity of our ALMA MATER, by cultivating a fraternal feeling among the Alumni, by aiding in all efforts to elevate the standard of Dental Education, and extending the progress of dental Science and Art.

Any Alumnus of the Dental Department of the University, of good professional standing, is eligible to membership upon payment of five (5) dollars to the Treasurer, and by signing the Constitution.

*Two Meetings* are held yearly: one on the evening of the annual College Commencement (followed by the annual Alumni banquet), and the other during the mid-term of the College, subject to the call of the Executive Committee.

The following officers have been elected for the current year:

HARRY P. CARLTON, D.D.S. . . . .	PRESIDENT
C. W. HIBBARD, D.D.S. . . . .	VICE-PRESIDENT
HARRY G. RICHARDS, D.D.S. . . .	REC. SECRETARY
H. D. NOBLE, D.D.S. . . . .	COR. SECRETARY
P. C. ERHARDT, D.D.S. . . . .	TREASURER

---

## EXECUTIVE COMMITTEE.

H. L. SEAGER, D.D.S.
M. F. GAMBITZ, D.D.S.
J. M. DUNN, D.D.S.
J. D. HODGEN, D.D.S.
G. N. VAN ORDEN, D.D.S.

---

All Alumni are urgently requested to identify themselves with the Association, and to assist in promoting its welfare and advancing its objects.

# UNIVERSITY OF CALIFORNIA.

## MEDICAL DEPARTMENT.

---

### FACULTY.

MARTIN KELLOGG, A.M., LL.D., President of the University, and  
*ex-officio* President of the Faculty.

---

G. E. SHURTLEFF, M.D., Emeritus Professor of Mental Diseases  
and Medical Jurisprudence.

---

R. BEVERLY COLE, A.M., M.D., M.R.C.S. (Eng.), Professor of Obstetrics  
and Gynecology.

W. F. McNUTT, M.D., M.R.C.P. (Edin.), etc., Professor of Principles  
and Practice of Medicine.

ROBERT A. McLEAN, M.D., Professor of Clinical and Operative  
Surgery, Dean.

W. E. TAYLOR, M.D., Professor of Principles and Practice of Surgery.

A. L. LENGFELD, M.D., Professor of Materia Medica and Medical  
Chemistry.

BENJ. R. SWAN, M.D., Professor of Diseases of Children.

GEORGE H. POWERS, A.M., M.D., Professor of Ophthalmology  
and Otology.

WM. WATT KERR, A.M., M.B., C.M., Professor of Clinical Medicine.

ARNOLD A. D'ANCONA, A.B., M.D., Professor of Physiology.

DOUGLAS W. MONTGOMERY, M.D., Professor of Pathology and  
Histology.

WASHINGTON DODGE, M.D., Professor of Therapeutics.

JOHN M. WILLIAMSON, M.D., Professor of Anatomy.

JOHN W. ROBERTSON, A.B., M.D., Professor of Nervous and  
Mental Diseases.

JOHN C. SPENCER, A.B., M.D., Professor of Pathology and Histology.

W. E. HOPKINS, M.D., Associate Professor of Ophthalmology and  
Otology.

GEO. F. SHIELS, M.D., F.R.C.S.E., Associate Professor of Principles  
and Practice of Surgery.

CHAS. A. von HOFFMANN, M.D., Adjunct to the Chair of Gynecology.

WM. J. HAWKINS, M.D., Adjunct to the Chair of Physiology.

HENRY B. A. KUGELER, Adjunct to the Chair of Pathology and Histology.  
T. GREEN, Ph.G., Adjunct to the Chair of Materia Medica and Chemistry.  
M. B. LEWITT, M.D., Adjunct to the Chair of Diseases of Children.  
RICHARD M. H. BERNDT, M.D., Adjunct to the Chair of Therapeutics.  
JAMES F. McCONE, B.S., M.D., Assistant to the Chair of Obstetrics.  
HENRY BARBAT, Ph.G., M.D., Demonstrator of Anatomy.  
M. P. TUGGLE, M.D., Senior Assistant Demonstrator of Anatomy.  
J. FRASER, A.B., M.D., Junior Assistant Demonstrator of Anatomy.  
ERWIN BUNNELL, A.B., M.D., Junior Assistant Demonstrator of Anatomy.  
HENRY A. L. RYFKOGEL, M.D., Junior Assistant Demonstrator of Anatomy.  
ROBERT CREES, M.D., Junior Assistant Demonstrator of Anatomy.

---

COLLEGE DISPENSARY STAFF.

*Medicine*—

WASHINGTON DODGE, M.D.  
F. W. D'EVELYN, M.D., C.M.

*Surgery*—

JOHN M. WILLIAMSON, M.D.  
A. K. HAPERSBERG, M.D.

*Ophthalmology and Otology*—

GEO. H. POWERS, M.D.

*Gynecology*—

CHAS. A. VON HOFFMANN, M.D.

*Cutaneous and Venereal Diseases*—

DOUGLAS W. MONTGOMERY, M.D.

---

The session begins September 1st, and continues eight calendar months.

Graduates of Dental Colleges in good standing are admitted to the Senior Class upon passing a satisfactory examination in the curriculum of the Sophomore year.

The course extends over four years of medical study. Graduates of recognized literary and scientific colleges and those who have spent two years in the natural science course of a recognized university are admitted to the Sophomore Class without examination.

ROBERT A. McLEAN, Dean,  
305 Kearny Street, San Francisco, Cal.

# UNIVERSITY OF CALIFORNIA.

## DEPARTMENT OF PHARMACY.

### CALIFORNIA COLLEGE OF PHARMACY.

#### FACULTY.

MARTIN KELLOGG, A.M., LL.D., President of the University and  
*ex-officio* President of the Faculty.

HERRMANN H. BEHR, M.D., Emeritus Professor of Botany.

WILLIAM T. WENZELL, M.D., Ph.D., Ph.M., Professor of Chemistry

J. J. B. ARGENTI, Ph.G., Professor of Botany.

C. A. SEIFERT, Ph.G., Professor of Pharmacy.

JEROME J. B. ARGENTI, Ph.G., Professor of Microscopy and Veget-  
table Histology.

WILLIAM M. SEARBY, Ph.C., Professor of Materia Medica, and  
Dean.

F. T. GREEN, Ph.G., Professor of Analytical and Pharmaceutica  
Chemistry, and Director of the Laboratory.

ROBERT A. LEET, Ph.G., Instructor in Chemistry.

JOSEPHINE E. BARBAT, Ph.G., Instructor in Botany.

H. E. D. BESTHORN, Ph.G., Instructor in Pharmacy.

OTTO A. WEIHE, Ph.G., Instructor in Materia Medica.

M. R. GIBSON, Ph.G., Instructor in Microscopy.

The College is equipped with every requisite for teaching the various branches pertaining to Pharmacy, including Materia Medica Museum, Analytical and Pharmaceutical Laboratories, and a Microscopical Department, which is enlarged from time to time by the purchase of microscopes and appliances.

The requirements for admission are as follows :

1. Applicants for admission must be at least eighteen years of age (While it is advisable that students shall have one or two years practical training in a drugstore before entering the College, this is not compulsory.)



2. Applicants will be accepted who bring any of the following credentials:

- (a) Certificates of graduation from High Schools of this State.
- (b) Diplomas of graduation from schools or academies accredited by the State University. (See Register of the University of Cal., 1894, page 39.)
- (c) Certificates of high standing in other institutions of the college grade.
- (d) Diplomas from Normal Schools of this State.
- (e) First grade teachers' certificates of this State.
- (f) Certificates of having completed satisfactorily the first year's course in High Schools of this State.

3. Applicants who do not present any of the foregoing credentials will be examined in the following branches:

- (a) English.—They will be required to show their ability in spelling, punctuating, use of capitals, grammatical construction, and correctness of expression. (The handwriting will be estimated, and counted as a part of this examination.)
- (b) Geography.—American and General.
- (c) Free-hand drawing.
- (d) Mathematics.—Arithmetic: Fundamental rules; fractions, common and decimal; denominate numbers; percentage; proportion.
- (e) Algebra: Fundamental rules; fractions; equations of the first degree, consisting of two or more unknown quantities.
- (f) Latin.—Rudiments; declensions of nouns, pronouns, adjectives; conjugations of verbs; translation of simple sentences from Latin to English, and English to Latin.

Applicants who fail to obtain the required percentage in free-hand drawing and Latin may be entered conditionally, but will be required to pass the examination satisfactorily in these studies at the close of the Preparatory Lecture Course.

The curriculum consists of two courses of Lectures of six months each, from April 1st to October 1st in each year, with Junior Laboratory Course of twenty-four days' actual work at the close of the lecture course, and a Senior Laboratory Course of twenty-four days' work before opening of the lecture course.

The Lectures and Demonstrations are delivered in Chemistry, Botany, Materia Medica, Microscopy, and Pharmacy, from April to October, inclusive.

The Laboratory, under charge of Professor Green and an assistant, is in operation from February to April for the Senior, and from October

to November for the Junior class. Only the extra Laboratory instruction is given during the lecture term.

The Alumni Review (Quiz) Classes are conducted by five Instructors, who are all graduates of our own College.

In every respect this College keeps abreast of the leading Colleges of Pharmacy in the country, adopting the most approved methods of teaching, and keeping pace with the rapid advances of pharmaceutical science.

Students from other Colleges of Pharmacy who have attended the Junior Course, have passed the examinations at the close of the term, and present certificates that they are entitled to enter the Senior class of the college they have attended, are admitted to the Senior class of this College.

**Pharmacists Entering Medical Colleges.**—Graduates in Pharmacy of this College are permitted to present themselves for examination for the degree of Doctor of Medicine in the Medical Department of the University of California and in the Cooper Medical College, after attending either of those schools three years, instead of four, as required of other students.

Assistants seeking situations, and employers wanting clerks, can register their names with the Dean. Students may have their mail matter addressed in care of the College.

The Session of 1896 will begin as follows: **LABORATORY** for Senior students only, about February 1st. **LECTURE TERM** for Juniors and Seniors, about April 1st. **PRELIMINARY EXAMINATIONS** for Matriculation, about March 20th.

---

For prospectus, terms and further information, address

W. M. SEARBY,

*Dean of the Faculty,*

**THE LIBRARY OF THE**  
400 Sutter Street, San Francisco.

FEB 26 1931

UNIVERSITY OF ILLINOIS.

# SAN FRANCISCO POLYCLINIC

POST-GRADUATE MEDICAL DEPARTMENT OF THE

## UNIVERSITY OF CALIFORNIA

A School of Clinical Medicine for Graduates of Colleges  
of Regular Medicine.

MARTIN KELLOGG, A.M., LL.D., President of the University.

LOUIS BAZET, M.D., Professor of Genito-Urinary Surgery.  
EDWARD S. CLARK, M.D., Professor of Otology.  
FRED. W. D'EVELYN, M.B., C.M. (Edin.), Professor of Pediatrics.  
C. A. VON HOFFMANN, M.D., Professor of Gynecology and Obstetrics.  
HENRY KREUTZMANN, M.D., Professor of Gynecology and Obstetrics.  
DOUGLASS W. MONTGOMERY, M.D., Professor of Venereal Diseases and Dermatology.  
MARTIN REGENSBURGER, M.D., Professor of Venereal Diseases and Dermatology.  
HARRY M. SHERMAN, A.M., M.D., Professor of Orthopedic Surgery.  
GEORGE F. SHIELS, M.D., C.M. (Edin.), F.R.C.S.E., Professor of Surgery.  
HENRY L. WAGNER, M.D., Ph.D., Professor of Rhinology and Laryngology.  
W. F. McNUTT, M.D., M.R.C.P. (Edin.), Professor of Diseases of Heart and Kidneys.  
W. E. HOPKINS, M.D., Professor of Ophthalmology.  
W. A. MARTIN, M.D., Professor of Ophthalmology.  
LUKE ROBINSON, M.D., M.R.C.P. (Lond.), Professor of Gynecology.  
W. H. MAYS, M.D., Professor of Gynecology.  
LEO NEWMARK, M.D., Professor of Neurology.  
J. C. SPENCER, A.B., M.D., Professor of Bacteriology.  
WASHINGTON DODGE, M.D., Professor of Medicine.  
BEVERLY MACMONAGLE, M.D., Professor of Gynecology.

Instruction is entirely by clinical lectures, which cover the whole of Medicine and Surgery. The work is divided into five classes:

**Medical Class**—General Internal Medicine, Pediatrics, Neurology.

**Surgical Class**—General Surgery, Genito-Urinary Surgery, Orthopedic Surgery.

**Ophthalmic Class**—Ophthalmology, Otology, Rhinology, Laryngology.

**Gynecological Class**—Gynecology and Obstetrics.

**Dermatological Class**—Dermatology and Venereal Diseases.

There is an ample supply of clinical material from the large number of cases attending the free clinics of the Polyclinic. Clinics are also held at the following hospitals: St. Mary's Hospital, in Gynecology; City and County Hospital, in Surgery, Genito-Urinary Surgery, Gynecology and Ophthalmology; the Children's Hospital, in Orthopedic Surgery, Ophthalmology; St. Luke's Hospital, in Gynecology.

Tickets are sold for six weeks' courses in any of the classes. These courses may begin at any time. The fees are: Matriculation, \$5.00; courses in any class, \$15.00.

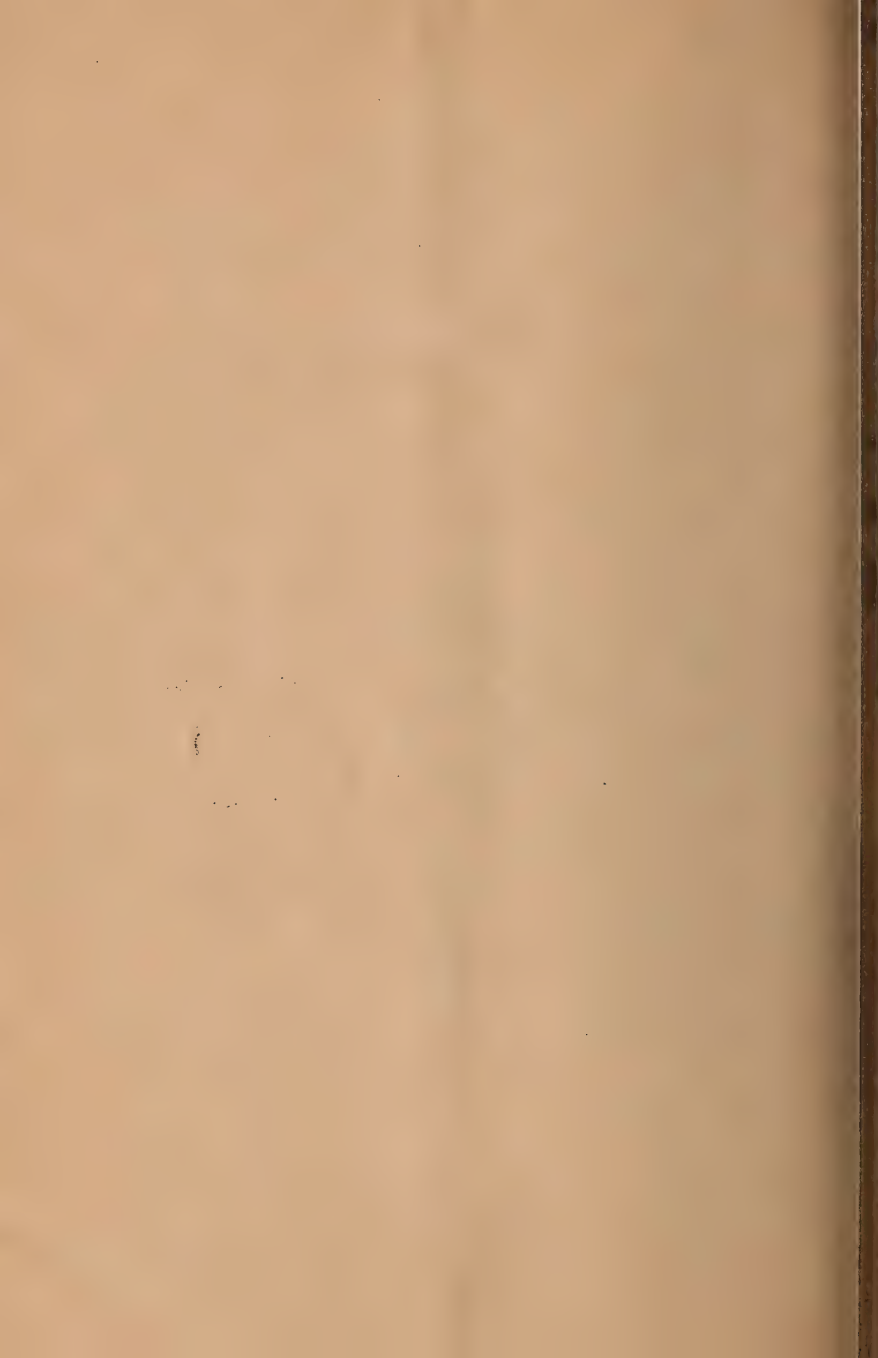
**Bacteriology**—The laboratory is now open to students.

Special arrangements may be made for courses in operation and technical work in any of the classes to meet the needs of students.

**New Building**—The Polyclinic now occupies its own building, designed especially for its work. It contains a large lecture-room, seven clinic-rooms, drugstore, waiting-rooms, reading-rooms, and a Laboratory completely equipped for Bacteriological Studies.

For more specific information, address

SECRETARY SAN FRANCISCO POLYCLINIC,  
410 ELLIS STREET, SAN FRANCISCO.





uZd  
p/97

# COLLEGE OF DENTISTRY

OF THE  
UNIVERSITY OF CALIFORNIA



COR. MARKET AND TAYLOR STREETS

## FIFTEENTH SESSION

Commencing Monday, Sept. 7, 1896, and Ending May 31, 1897



## CALENDAR FOR 1896-97.

---

Tuesday and Wednesday, August 25th and 26th	}	First Preliminary Examination
Monday, September 7th		Beginning of Term
Wednesday, September 9th		Holiday (Admission Day)
Saturday, October 10th		Second Preliminary Examination
Thursday, November 26th	}	Thanksgiving Recess
Saturday, November 28th		
Saturday, December 5th (9 A. M.)		Examination for Entrance Conditions
Monday, December 21st	}	Christmas Vacation (three weeks)
Saturday, January 9th		
Monday, February 22d		Holiday (Washington's Birthday)
Tuesday, March 23d		Charter Day (University of California)
April 1st to May 8th		Senior Examination in Infirmary
May 17th to May 22d		Senior Examinations
May 24th to May 29th		Junior and Freshman Examinations
May 31st		End of Term
Wednesday, June 16th		Commencement
June 1st to September 1st	{	Practical Course for Junior and Freshman Students

# ANNOUNCEMENT

OF THE

## COLLEGE OF DENTISTRY

THE LIBRARY OF THE

OF THE

FEB 26 1931

UNIVERSITY OF ILLINOIS.

UNIVERSITY OF CALIFORNIA

FOR ITS

### FIFTEENTH SESSION

COMMENCING SEPTEMBER 7, 1896, AND ENDING MAY 31, 1897

---

*N. B.—Those who wish to receive the Announcement are requested to forward their  
Names and Addresses to the Dean.*

---

SAN FRANCISCO

C. A. MURDOCK & Co., PRINTERS

1896

# UNIVERSITY OF CALIFORNIA.

---

## OFFICE DIRECTORY.

---

### IN BERKELEY.

The office of the PRESIDENT is Room No. 20, *North Hall*.

The office of the DEAN is Room No. 32, *North Hall*.

The office of the RECORDER is Room No. 10, *North Hall*.

The office of the SECRETARY and office of the BOARD OF REGENTS is in *South Hall*.

The office of the LAND AGENT is in *South Hall*.

---

### AT MT. HAMILTON.

The address of the DIRECTOR OF THE LICK OBSERVATORY is Lick Observatory, Mt. Hamilton, Santa Clara County, California.

---

### IN SAN FRANCISCO.

The office of the REGISTRAR OF THE COLLEGE OF LAW is No. 230 Montgomery Street, Room 15.

Lectures in the COLLEGE OF LAW are delivered in the Assembly Room of the Society of Pioneers, No. 808 Montgomery Street.

The office of the DEAN OF THE MEDICAL FACULTY is No. 305 Kearny Street.

The COLLEGE OF MEDICINE is situated on Stockton Street, between Chestnut and Francisco, in Toland Hall.

The Medical and Surgical Clinics of the COLLEGE OF MEDICINE are held at the City and County Hospital, Twenty-second Street and Potrero Avenue.

The Dispensary Clinics of the COLLEGE OF MEDICINE are held at 155 New Montgomery Street.

The office of the DEAN OF THE DENTAL FACULTY is No. 606 Sutter Street.

Lectures in the COLLEGE OF DENTISTRY are delivered in the College Building, No. 18 Taylor Street, corner of Market.

The office of the DEAN OF THE COLLEGE OF PHARMACY is No. 400 Sutter Street.

The COLLEGE OF PHARMACY is situated at No. 113 Fulton Street, between Polk Street and Van Ness Avenue.

The Veterinary Department is situated at the Corner of Post and Fillmore Streets. Office of the Dean, 18 Cedar Avenue.

The office of the BOARD OF REGENTS is in the Hopkins Art Building, corner of Mason and California Streets.

The office of the TREASURER OF THE BOARD OF REGENTS is No. 310 Sansome Street.

# UNIVERSITY OF CALIFORNIA.

## BOARD OF REGENTS.

### EX-OFFICIO REGENTS.

HIS EXCELLENCY JAMES H. BUDD . . . . .	Sacramento
<i>Governor, ex-officio President of the Board.</i>	
HIS HONOR WILLIAM T. JETER . . . . .	Santa Cruz
<i>Lieutenant-Governor.</i>	
HON. JOHN C. LYNCH . . . . .	San Bernardino
<i>Speaker of the Assembly.</i>	
HON. SAMUEL T. BLACK . . . . .	Sacramento
<i>State Superintendent of Public Instruction.</i>	
HON. C. M. CHASE . . . . .	San Francisco
<i>President of the State Agricultural Society.</i>	
E. A. DENICKE, Esq. . . . .	San Francisco
<i>President of the Mechanics' Institute.</i>	
MARTIN KELLOGG, A.M., LL.D. . . . .	Berkeley
<i>President of the University.</i>	

### APPOINTED REGENTS.\*

NAME.	ADDRESS.	TERM EXPIRES.
CHARLES W. SLACK . . . . .	New City Hall, S. F. . . .	1910
HON. J. WEST MARTIN . . . . .	Union Savings Bank, Oakland . . . . .	1898
ANDREW S. HALLIDIE, ESQ. . . . .	9 Fremont St., S. F. . . .	1908
HON. WILLIAM T. WALLACE . . . . .	799 Van Ness Ave., S. F. .	1902
JAMES A. WAYMIRE . . . . .	Alameda . . . . .	1908
J. F. HOUGHTON, ESQ. . . . .	Palace Hotel, S. F. . . .	1904
HON. TIMOTHY GUY PHELPS . . . . .	San Mateo . . . . .	1912
ISAIAS WILLIAM HELLMAN, ESQ. . . . .	Nevada Bank, S. F. . . .	1902
GEORGE THOMAS MARYE, JR., LL.B. . . . .	234 Montgomery St., S. F.	1898
ARTHUR RODGERS, B.S., LL.B. . . . .	309 Montgomery St., S. F.	1906
HON. HENRY S. FOOTE . . . . .	305 Larkin St., S. F. . . .	1900
ALBERT MILLER, ESQ. . . . .	532 California St., S. F. .	1906
CHARLES FREDERICK CROCKER, ESQ. . . . .	Union Trust Co. Building, S. F. . . . .	1904
CHESTER ROWELL, M.D. . . . .	Fresno . . . . .	1910
JACOB BERT REINSTEIN, A.M. . . . .	217 Sansome St., S. F. . .	1912
JOHN E. BUDD . . . . .	Stockton . . . . .	1900
J. H. C. BONTÉ, D.D., Secretary . . Berkeley.		

Regular meetings of the Board of Regents are held thirteen times a year, viz: In San Francisco, on the second Tuesday in each month; in Berkeley, on the day preceding Commencement in the College of Letters and the Colleges of Science.

\* In the order of original appointment.

# UNIVERSITY OF CALIFORNIA.

---

## COLLEGE OF DENTISTRY.

DONOHUE BUILDING, CORNER OF MARKET AND TAYLOR STREETS,  
SAN FRANCISCO.

---

### FACULTY.

- MARTIN KELLOGG, A.M., LL.D., President of the University, and  
*ex-officio* President of the Faculty.
- JOSEPH LE CONTE, M.D., LL.D., Honorary Professor of Biology.
- W. E. TAYLOR, M.D., Emeritus Professor of Surgery.
- C. L. GODDARD, A.M., D.D.S., Professor of Orthodontia.
- L. L. DUNBAR, D.D.S., Dean, and Professor of Operative Dentistry.
- MAURICE J. SULLIVAN, D.D.S., Professor of Dental Pathology,  
Therapeutics, and Materia Medica.
- WILLIAM B. LEWITT, M.D., Professor of the Principles and Practice  
of Surgery.
- A. L. LENGFELD, M.D., Professor of Chemistry and Metallurgy.
- A. A. D'ANCONA, A.B., M.D., Professor of Physiology and Histology.
- J. M. WILLIAMSON, M.D., Professor of Anatomy.
- 

### LECTURERS, DEMONSTRATORS, AND ASSISTANTS.

- W. F. SHARP, D.D.S., D.M.D., Lecturer on Mechanical Dentistry.
- H. R. WILEY, A.B., Lecturer on Dental Jurisprudence.
- CHARLES A. LITTON, D.D.S., Superintendent of Infirmary.
- M. J. SULLIVAN, D.D.S., Instructor in Clinical Operative Dentistry.
- HARRY P. CARLTON, D.D.S., Instructor in Operative Technic.
- H. D. NOBLE, D.D.S., Demonstrator of Operative Dentistry.
- WALTER I. WILCOX, D.D.S., Instructor in Clinical Mechanical  
Dentistry.
- JAMES W. LIKENS, D.D.S., Demonstrator of Operative Dentistry.
- S. P. TUGGLE, M.D., Demonstrator of Anatomy.
- S. J. FRASER, A.B., M.D., Assistant Demonstrator of Anatomy.
- EDWIN BUNNELL, A. B., M. D., Junior Assistant of Anatomy.
- J. D. HODGEN, D.D.S., Assistant in Chemistry and Metallurgy.
- H. D. NOBLE, D.D.S., Demonstrator of Orthodontia Technic.
- JAMES G. SHARP, D.D.S., M.D., Assistant to the Chair of Physiology  
and Histology.



JUNIOR ASSISTANTS.

GILBERT F. GRAHAM, M.D., D.D.S. . . .	Assistant Demonstrator
LAWRENCE GREENBAUM, D.D.S. . . . .	" "
CHAS. B. PORTER, Jr., D.D.S. . . . .	" "
B. M. STICH, D.D.S. . . . .	" "
W. H. WARE, D.D.S. . . . .	" "

---

CLINICAL STAFF.

F. W. BLISS, D.D.S. . . . .	Santa Cruz
H. HIPKINS, L.D.S. . . . .	San Francisco
H. E. KNOX, D.D.S. . . . .	Oakland
E. L. TOWNSEND, D.D.S. . . . .	Los Angeles
J. P. PARKER, D.D.S. . . . .	Santa Cruz
W. E. PRICE, D.D.S. . . . .	San Francisco
MAX SICHEL . . . . .	San Francisco
L. VAN ORDEN, M.D., D.D.S. . . . .	San Francisco
F. H. METCALF, D.D.S. . . . .	Sacramento

L. L. DUNBAR, Dean,  
No. 606 Sutter Street, San Francisco.

## ❧ FIFTEENTH SESSION ❧

1896 - 1897

---

THE COLLEGE OF DENTISTRY OF THE UNIVERSITY OF CALIFORNIA begins its Fifteenth Session on Monday, September 7, 1896, under circumstances that promise much for the future of the department. It now stands in the front rank of technical schools, easily maintaining the standard for which its founders have striven, and bearing the good will of the profession both here and abroad. It is a matter for congratulation that its graduates take rank with the foremost wherever they go, both in professional training and general culture.

The increased facilities provided at the beginning of last term were met by the largest attendance in the history of the school, which now occupies the entire upper floor and part of another of one of the largest buildings in the city, which, with its arrangement of rooms and general equipment, secures all that could be desired in any first-class Dental College. At the last session of the State Legislature, a bill was passed, through the combined efforts of the professional Colleges of the University, aided by public-spirited citizens, appropriating \$250,000 for the construction of a building or buildings for these practical departments. The generosity of Hon. Adolph Sutro has supplied a splendid site for the erection of a beautiful group of buildings, plans of which have been accepted, with every prospect of their early construction. When this is accomplished, we hope to offer a course of instruction based upon a standard of entrance requirements that will challenge comparison anywhere.

Recognizing the importance of preparatory training, this school has in contemplation the inauguration of an additional course, or fourth year, for those who are deficient in educational requirements. This course will be recommended to applicants who wish to prepare themselves in Chemistry, Physics, and Latin, and will include, also, a course in Dental Manual Training. It will be obligatory upon all who must take these examinations to enter, but optional with those who have prepared

themselves elsewhere. It is hoped by this means to remove a serious handicap from students who might otherwise be conditioned at the entrance examination, as well as to provide instruction in these branches under the direction of the Faculty.

The graded course of instruction adopted in 1891 gives very satisfactory results. Students are systematically employed, and the handling of a large number of students is facilitated, giving all a like opportunity.

Under the new arrangement, the infirmary is separated entirely from the lecture and class rooms, so that students only come into contact with patients under direct assignment by the Superintendent. Elevators are provided for the exclusive use of each, that for patients of the infirmary being on Market Street, and for students at the Taylor Street entrance to the building.

The College building is admirably situated for convenient access, occupying a prominent corner upon the main thoroughfare of the city, contiguous to all lines of cars, direct or by transfer.

The supply of clinic material is very abundant, and during some seasons more than can be served. To the thirty chairs already in use we have added twenty-six more, making fifty-six in all, with accessory cabinets, brackets, etc.

A commodious Senior operating room is also provided for advanced students, in addition to the large operating rooms heretofore in use.

The dental laboratories are on the same floor, and consist of two—one for elementary instruction in Mechanical Technic, and the other for advanced students. These are thoroughly equipped with individual benches, provided with lockers, as well as the latest improved appliances for all kinds of prosthetic work.

Crown and bridge work is a prominent feature of the instruction in the Junior year, followed by advanced work in porcelain construction in the Senior year.

Orthodontia, both didactic and practical, including a course in Orthodontia Technics, is an important part of the curriculum, receiving the entire attention of a specialist in this branch of practice.

The course in Histology will be supplemented by a full laboratory course in Histology and practical work with the microscope. Special attention will be given to Section Cutting

—both of hard and soft tissues. A suitable room is provided for this purpose, equipped with all the requisites for instruction, including fifteen superior microscopes.

The building is provided with abundant means of egress, in two wide stairways, two elevators, and two outside fire-escapes on each side.

All the lectures of the Department will be delivered in the College lecture room, but the work in Practical Anatomy will be performed under the superintendence of the Demonstrator of Anatomy, at the College of Medicine, Stockton Street, between Chestnut and Francisco, where a commodious dissecting room is especially provided for dental students, equipped with six glass-top tables, where thirty students may be accommodated at one time.

While the undergraduate departments of the University are clustered at Berkeley, the professional colleges are, for convenience of clinical study, conducted wholly in San Francisco. For this reason it is but right that they should be properly housed, and more fittingly represent the great University of which they are a part.

There are seven professors in the college, besides a corps of able and efficient special lecturers and demonstrators. The professors will lecture each week, according to schedule of instruction published in this announcement. Wednesday afternoon of each week will be set apart, as heretofore, for clinical instruction. While the staff of clinical instructors as heretofore are discontinued, it will be the aim of the Faculty to supply their absence with a more comprehensive course of technics than has ever been given in a dental school, supplemented by clinics by visiting dentists whenever possible.

The dental laboratories are furnished with benches, lathes, furnaces for melting, forge, rolling mill, continuous gum furnaces, and all other requisites for thorough work. Each student is required to furnish his own instruments and tools, and will be provided with a separate drawer, in which they can be securely locked. Those who have instruments and laboratory tools and appliances should bring them; those who have not are advised to defer purchasing until they arrive. Lists of instruments and appliances requisite are designated elsewhere, copies of which will be furnished by the Superintendent. During the hours

devoted to Operative or Mechanical Dentistry, competent Demonstrators will be present to assist the students in their operations. The Superintendent of the Infirmary will receive and assign patients to students, and will have general supervision of the Infirmary.

As per resolution of the National Association of Dental Faculties, this College requires an attendance upon three full regular courses in separate years before graduation.





## SCHEDULE OF STUDY.

*Session of 1896-97—Term commences September 7, 1896, and  
closes May 31, 1897.*

### Order of Lectures and Clinics.

#### FRESHMAN YEAR.

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.
9 A.M. to 11 A.M.	LABORATORY.	Operative Technic, Dr. CARLTON.	LABORATORY.	Operative Technic, Dr. CARLTON.	LECTURE, Anatomy, Prof. WILLIAMS.
10 A.M. to 11 A.M.	LECTURE, Physiology, Prof. D'ANCONA.	LABORATORY.		Microscopic Technic, Prof. D'ANCONA	LABORATORY.
11 A.M. to 12 M.		LECTURE, Osteology, Dr. FRASER.			LECTURE, Chemistry, Prof. LENGFELD.
1 P.M. to 3 P.M.	LABORATORY.	CHEMICAL LABORATORY, Dr. HODGEN.	1 to 3:30, CLINICAL INSTRUCTORS.	LABORATORY.	LABORATORY.
3 P.M. to 4 P.M.					
4 P.M. to 5 P.M.					
SATURDAY, 9 A.M. TO 12 M.					
LABORATORY CLINICS OR SURGICAL CLINICS AT CITY AND COUNTY HOSPITAL.					

\* First half of the Session.

Daily, from 9 A.M. to 5 P.M., Instruction in Freshman Laboratory, by Junior Assistant Demonstrators.

# ORDER OF LECTURES AND CLINICS—*Continued.*

## JUNIOR YEAR.

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.
9 A.M. to 10 A.M.	CLINIC.	CLINIC.	CLINIC.	LECTURE, Mechanical Dentistry, Dr.W. F. SHARP	LECTURE, Operative Dentistry, Prof. DUNBAR.
10 A.M. to 11 A.M.				LECTURE, Anatomy, Prof. WILLIAMSON.	LECTURE, Physiology, Prof. D'ANCONA.
11 A.M. to 12 M.	LECTURE, Anatomy, Prof. WILLIAMSON		LECTURE,* Physiology, Prof.D'ANCONA		LECTURE, Chemistry, Prof. LENGFELD.
1 P.M. to 2 P.M.	CLINIC.	LECTURE, Chemistry, Dr. HODGEN.	CLINICAL INSTRUCTORS. 1 to 3:30 P.M.		CLINIC.
2 P.M. to 3 P.M.					
3 P.M. to 4 P.M.					
4 P.M. to 5 P.M.		LECTURE, Pathology and Therapeutics, Prof. SULLIVAN	3:30 to 4:30. LECTURE, Orthodontia, Prof. GODDARD.	LECTURE, Materia Medica, Prof. SULLIVAN	Orthodontic Technic, Dr. NOBLE.
5 P.M. to 6 P.M.		DISSECTING.			

SATURDAY, 9 A.M. TO 12 M.

OPERATIVE CLINICS AND HOSPITAL CLINICS IN SURGERY.

\* Second half of the Session.

# ORDER OF LECTURES AND CLINICS.—*Continued.*

## SENIOR YEAR.

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.
9 A.M. TO 10 A.M.	LECTURE, Operative Den- tistry, Prof. DUNBAR.	CLINIC.	CLINIC.	CLINIC.	CLINIC.
10 A.M. TO 12 M.	CLINIC.				
1 P.M. TO 2 P.M.	Practical Metallurgy, Division A, Dr. HODGEN.	CLINIC.	CLINIC INSTRUCTORS, 1 to 3:30.	CLINIC.	LECTURE, Metallurgy, Dr. HODGEN.
2 P.M. TO 4 P.M.			LECTURE, Orthodontia, Prof. GODDARD.		Practical Metallurgy, Division B, Dr. HODGEN.
4 P.M. TO 5 P.M.	LECTURE, Mechanical Dentistry, Dr. W. F. SHARP.	LECTURE, Pathology and Therapeutics, Prof. SULLIVAN.	3:30 to 4:30.  CLINIC. Orthodontia, Prof. GODDARD.	LECTURE, Materia Medica, Prof. SULLIVAN	
5 P.M. TO 6 P.M.		QUIZ, Surgery, Prof. LEWITT.		LECTURE, Surgery, Prof. LEWITT.	
SATURDAY, FROM 9 A. M. TO 12 M. OPERATIVE CLINICS AND HOSPITAL CLINICS IN SURGERY.					

Surgical Clinics will be held during the term by Prof. W. B. Lewitt whenever opportunity offers.

## REQUIREMENTS FOR ADMISSION.

Every candidate for admission must be eighteen years of age, must present to the Faculty satisfactory evidence of a good moral character, and must be examined as to his previous education and fitness to appreciate the technical study of Dentistry.

In order to secure a release from this examination, the candidate must present his diploma or certificate of examination or graduation.

Graduates and Undergraduates of Medicine desiring to qualify themselves for the practice of Dentistry will be governed by the following rules of the National Association of Dental Faculties:

*Resolved*, That after the Session of 1890-91 a diploma from a reputable Medical College shall entitle its holder to enter the second course in Dental Colleges of this Association, but he may be excused from attendance upon lectures and examinations upon the following subjects:—General Anatomy, Chemistry, Physiology, Materia Medica, and Therapeutics. (Excelsior, 1890.)

*Resolved*, That the candidates for admission to the Colleges of this Association who are Undergraduates in a reputable Medical College may be admitted to the Junior Class, subject to the rules of examination governing admission to that class. (Saratoga, 1891.)

Candidates for admission to advanced standing will be governed by the following rules:

*Resolved*, That the Colleges of this Association may receive into the Junior or Senior Classes only such students as hold certificates of having passed a satisfactory examination in the studies of the Freshman or Junior years, respectively; this certificate is to be a pledge to any College to which they may apply that a previous year has been properly spent in the institution from whence they come. (Chicago, 1885; changed Saratoga, 1891.)

*Resolved*, That applicants for admission to advanced standing from foreign countries shall be required to furnish properly attested evidence of study, attendance upon lectures, etc., the same as required of applicants here, and they shall pass the intermediate examinations. (Chicago, 1885; changed, Saratoga, 1891.)

In accordance with the foregoing, this College will admit students to advanced standing who hold certificates from colleges belonging to the National Association of Faculties that exact a like standard of entrance requirements and curriculum.

Beginning with the Fifteenth Session (September 7, 1896), this College will adopt the following rules governing admissions, viz:

### MATRICULATION EXAMINATION.

Students desiring to matriculate are required to undergo examinations for admission, with the following exceptions, viz :

1. Applicants who present certificates of having successfully passed the examinations for admission to the College of Letters or the College of Science of the University of California, or some other recognized university or college.

2. Applicants who present diplomas or certificates of graduation from the University of California, or some other recognized university or college. Applicants who present diplomas or certificates of graduation from recognized high schools and academies.

3. Applicants who present a diploma or certificate of graduation from a State Normal School of California, or of any other State or Territory.

4. Teachers' certificates will be accepted in lieu of examinations in the subjects covered by the certificates.

The examinations will cover the following subjects:

1. *English*. Every candidate will be required to write an English composition of not less than two hundred words, correct in spelling, punctuation, capital letters, grammar, and paragraphing.

2. *Physics*. An amount represented by Avery's Natural Philosophy, or Gage's Introduction to Physical Science.

3. *Latin*. Refer to Smith's Principia Latina, Part I, or an equivalent.

4. *Elective Subjects*. Each candidate for admission must also pass an examination in *two* of the following subjects:—Chemistry, French, German, Elements of Algebra, Plane Geometry, Botany, Zoölogy.

Those who have never studied Latin will be allowed to take a condition in the subject, which must be removed before the examination for promotion.

Applicants intending to take this examination are advised to review their studies before doing so. Conditions imposed at the entrance examinations must be removed before the end of the term.



## CERTIFICATES OF STUDY.

Students who present certificates of one year's study in English, Physics, Latin, or any two of the elective subjects from any of the following "accredited schools" will be excused from examination in such subjects.

### LIST OF ACCREDITED SCHOOLS, 1896.

Alameda Co. Union High School, No. 2, Centerville.	Nevada City High School.
Alameda Co. Union High School, No. 3, Haywards.	Oakland High School.
Alameda High School.	Pasadena High School.
Alameda University Academy.	Pomona High School.
Armijo Union High School, Suisun.	Redlands Union High School.
Belmont School.	Riverside High School.
Berkeley High School.	Sacramento High School.
Berkeley Gymnasium.	Salinas High School.
Boone's University School, Berkeley.	San Bernardino High School.
Citrus Union High School, Azusa.	San Diego High School.
Coronado High School.	San Francisco Girls' High School.
Fresno High School.	San Jose High School.
Hanford Union High School.	San Rafael High School.
Miss Head's School, Berkeley.	Santa Ana High School.
Healdsburg High School.	Santa Barbara City High School.
Hesperian College, Woodland.	Santa Barbara Collegiate School.
Hoitt's Oak Grove School, Burlingame.	Santa Cruz High School.
Miss Horton's School, Oakland.	Santa Monica High School.
Kern Co. High School, Bakersfield.	Santa Paula High School.
Miss Lake's School for Girls, San Francisco.	Santa Rosa High School.
Lompoc Union High School.	Sonoma Valley Union High School.
Los Angeles High School.	Southwest Institute, San Diego.
Lowell High School, San Francisco.	St. Matthew's School, San Mateo.
Marysville High School.	Stockton High School.
Monrovia City High School.	Trinity School, San Francisco.
Mt. Tamalpais Military Academy.	Ukiah High School.
	Vacaville Union High School.
	Vallejo High School.
	Ventura High School.
	Visalia High School.
	Watsonville High School.

\*The State Normal Schools. Lincoln Evening High School.  
San Francisco Commercial High School.

---

\*The latter schools are only accredited in the subjects covered by their curriculum corresponding to our entrance requirement.

### PRELIMINARY EXAMINATIONS.

There are two general examinations for entrance held each year, on fixed dates; these are conducted by some well-known educator, who is selected for this purpose annually. Students desiring to enter must present themselves on the dates named, as no other examination for entrance will be given.

The preliminary examinations for the session of 1896-97 will be held in San Francisco, at the College building, corner Market and Taylor Streets (entrance No. 18 Taylor Street), August 25th and 26th, at 9 o'clock A. M. Students desiring to present themselves at these examinations will please register their applications with the Clerk of the Faculty, at the College, No. 1170 Market Street.

### THREE YEARS' STUDY.

The three years' course of study is arranged as follows:

*Freshman Year.*—Anatomy, with dissections; Physiology and Histology, General and Dental; Chemistry, with laboratory work; Mechanical Dentistry; Operative Technic; Mechanical Technic; Microscopic Technic.

Examinations will be held at the end of the year in all the above branches.

*Junior Year.*—Anatomy, with dissections; Physiology and Histology, General and Dental; Chemistry; Mechanical Dentistry; Operative Dentistry; Pathology, Therapeutics, and Materia Medica; Orthodontia and Orthodontia Technic.

Examinations will be held at the end of the year in all the above branches, and will be final in Anatomy, Physiology, Histology, and Chemistry.

*Senior Year.*—Operative Dentistry; Mechanical Dentistry; Orthodontia, with practical cases; Metallurgy, with laboratory work; Pathology, Therapeutics, and Materia Medica; Surgery.

---

### REQUIREMENTS FOR GRADUATION.

The candidate for the degree of Doctor of Dental Surgery must have attained the age of twenty-one years, and be of good moral character.

He shall have passed a satisfactory examination, oral, written, and practical.

He shall have studied Dentistry *three* years, including the time spent in attending lectures.

He shall have attended three full courses in the Dental Department of the University of California, or two years in some other reputable Dental College of like standard of requirements for entrance, and the third or last in this College.

The candidate is required to dissect at least two quarters, upper and lower. He must treat thoroughly some patient requiring all the usual dental operations, and bring such patient before the Professors of Operative Dentistry and Dental Pathology and Therapeutics. He must also complete at least one practical artificial denture, insert at least one crown or piece of bridge-work, and, after completion, bring his patient before the Lecturer on Mechanical Dentistry at least thirty days before the close of the term. He must treat one case of irregularity, and after the case is completed, bring his patient before the Professor of Orthodontia during the term. He must also prepare a specimen denture, to be deposited in the College collection, and present the same to the Lecturer on Mechanical Dentistry at least thirty days before the end of the term. The operating and the work on the artificial cases must be done at the College building, and exclusively by the applicant for the degree.

*No student of this College will be permitted to practice Dentistry illegally while under the jurisdiction of the Faculty. Conviction of such practice will terminate the College career of the offender.*

After these requirements have been complied with, upon the recommendation of the Faculty and approval of the Board of Regents, the candidate shall receive the degree of Doctor of Dental Surgery.

---

#### SCHEDULE OF FEES.

Matriculation .....	\$ 5 00
Lecture Fees (each year) .....	100 00
Practical Microscopy (Freshman) .....	10 00
Practical Anatomy (first and second years) .....	10 00
Fee for Final Examinations (not returnable) .....	25 00

The fees for each term must be paid in advance.

### TEXT-BOOKS.\*

The following books will be needed during the course of study. Students are advised to procure Nos. 1, 2, 3, 4, 5, 7, and 14 of the subjoined list at the beginning of the first year, and to add the others before the Senior year:

1. Dental Dictionary, Harris, or Medical Dictionary, Dunglison or Thomas.
2. Anatomy, Gray (13th ed.), Morris, Quain, or Holden.
3. Physiology, Kirk, Foster, or Landois.
4. Mechanical Dentistry, Richardson or Harris.
5. Operative Dentistry, Kirk, Taft, or Fillebrown.
6. Dental Chemistry, Mitchell.
7. Dental Anatomy, Black.
8. Orthodontia, Guilford.
9. Dental Metallurgy, Hodgen and Essig.
10. Dental Materia Medica and Therapeutics, Gorgas or Stockens.
11. Surgery, Moullin, or Am. Text-Book of Surgery.
12. Therapeutics, Wood, Biddle, or Bartholow.
13. Dental Pathology, Abbott or Wedl.
14. Chemistry, Roscoe's Elementary Chemistry and Remsen's Introduction to the Study of Chemistry.
15. Materia Medica, National Dispensatory or United States Dispensatory.

### ADDITIONAL BOOKS FOR REFERENCE.

Oral Surgery, Garretson.  
American System of Dentistry, Litch.  
Histology, Sterling.  
Microscopical Morphology, Heitzman.  
Pathology, Green.  
Therapeutics, Hare.  
Oral Deformities, Kingsley.  
Nitrous Oxide, Guilford.  
Mechanical Dentistry, Haskell.  
Micro-Organisms of the Human Mouth, Miller.  
Irregularities, Farrar or Talbot.  
Anatomy and Pathology of the Teeth, Böedecker.

---

\* The first-mentioned is the approved text-book.



## OUTLINE OF THE COURSE OF STUDY.

---

### BIOLOGY.

Professor Joseph Le Conte will deliver a series of lectures on the Correlation of Vital with Physical and Chemical Forces; also, upon the Homologies of the Vertebrate Skeletons.

---

### OPERATIVE DENTISTRY.

The course of instruction in this department will be as comprehensive and thorough as improved appliances and methods can make it, and will embrace both the Didactic and Clinical courses.

Intra and extra uterine development of the teeth will be fully considered, from the *primary* germ to the final loss of the permanent teeth.

The work will consist of a graded system of instruction, beginning with a comprehensive course in Operative Technics in the Freshman year, including a systematic study of tooth sections with silhouettes, and progressive block-work, which is a feature of the course in this College, presenting an opportunity for the highest type of dental manipulative training. This is followed in the Junior year by a course in Clinical Technics, assisted by lectures and quizzes.

The Senior year is devoted to practical work in the Infirmary, supplemented by lectures on the principles and practice of Operative Dentistry.

It will be the aim of the department to make the entire course of lectures from this chair as practical as possible, by a comparison of old and new methods, with a complete analysis of recent innovations in operative procedure, including the use of porcelain restorations.

Professor Dunbar will be assisted by Dr. H. P. Carlton and other Technic instructors, who will give ten hours each week to a series of Didactic and Clinical lectures, with a course in elementary and advanced Operative Technics for Junior and Freshman students.



## MECHANICAL DENTISTRY.

The instruction in Mechanical Dentistry will embrace everything necessary to enable the dentist successfully to apply substitutes for lost dental organs.

Special reference will be made to the principles involved in the restoration of the natural functions of the teeth, namely: mastication, enunciation, and expression of the features; keeping in view always the health and the future usefulness of the living parts.

The instruction is divided into two courses, as follows:

*Freshman Course.*—Lectures on the treatment of the mouth and teeth preparatory to inserting artificial dentures; impressions in wax and plaster; casts; the manufacture of artificial teeth, their selection and arrangement for special cases; application of atmospheric pressure to artificial dentures; properties and uses in the construction of dentures, of wax, plaster, shellac, sandarach, rubber, and celluloid.

*Junior and Senior Course.*—Lectures on the construction of instruments, of dies and counter-dies, of models of the mouth, and of molds; construction of dentures on bases of gold, silver, and aluminum; continuous gum work.

The construction of crown and bridge work will receive especial attention.

---

## ORTHODONTIA.

The subject of Orthodontia has been developed so much during the past ten years that, from occupying a minor part in a course devoted to Mechanical Dentistry, it now occupies the entire time of the former occupant of that chair.

Instruction will be both didactic and clinical. One hour each week will be devoted to lectures on the cause, prevention, and treatment of irregularities. In this course will be included several lectures on Comparative Dental Anatomy, and the making of obturators and artificial vela. The lectures will be illustrated by crayon and blackboard drawings, specimens of all useful appliances, and casts of practical cases, a large number of which have accumulated from private practice and the College Infirmary. By means of the opaque stereopticon, casts can be projected on the screen for illustration.

Each week a clinical lecture will be given in the Infirmary, where each Senior student is required to treat a practical case of irregularity. As no two cases are alike, and each student can examine the cases of all the others, an exceptional opportunity is thus given for practical study.

Dr. Noble will give a course in Orthodontia Technic to the Juniors, who will be required to draw wire and tubing, both round and square, make screws and nuts, springs, bands, and all essential forms of regulating appliances. This course will prepare them for the practical work of the Senior year.

---

### PHYSIOLOGY.

The lectures in this department, by Professor D'Ancona, embrace a consideration of both General and Special Physiology, including all that has been developed up to the present time, and are illustrated by a complete series of colored drawings, prepared expressly for these lectures; besides which, the vast collection of preparations and drawings of the Scientific Department at Berkeley are at the command of the Professor. Vivisections are practiced when necessary to demonstrate principles, and the microscope and stereopticon are freely used for illustrating important facts and principles.

The course embraces the lectures of two years, one year being devoted to the physiology of the nervous system and reproduction, the other to nutrition, respiration, circulation, etc.

A course of lectures will be given on Embryology and Histology, and fully illustrated by photo-micrograph reproductions, charts, etc. This course is introductory to the subjects of Anatomy and Physiology, and will consist of a full consideration of the following subjects: A general study in the development of the chick and other embryos; the theory of reproduction, ova, segmentation, and the development of the three layers of the blastoderm; cellular morphology, including a comprehensive study of the biological cell, and the nature of protoplasm; the products of the epiblast, including the development of hair, nails, horns, hoofs, sudoriparous glands, and the enamel organ of the teeth.

The products of the mesoblast, showing the development of the connective tissue group, including the subject of calcification

of bone, dentine, and cement—illustrative of the latter, many charts will be used in the comparative study of hard tissues,—and, lastly, the development of the teeth, will be fully considered by aid of a full line of illustrations from human and other embryos.

This will be supplemented by a course in practical work with the microscope, including Section Cutting, Staining, and Mounting, under the supervision of Professor D'Ancona, assisted by Dr. James G. Sharp, who will give a full course of laboratory training in Microscopic Technic, which will in future be a part of the Freshman curriculum, and must be completed in that year.

---

### SURGERY.

Professor William B. Lewitt, the Professor of the Principles and Practice of Surgery, will deliver one lecture each week on the Science and Art of Surgery, and devote one hour each week to a surgical clinic or recitation. His course will include General Surgical Principles and Pathology, and such lectures as may seem best adapted to students and practitioners of Dentistry. Also, a series of lectures on Anæsthesia and Anæsthetics, both general and local, with clinical illustrations before the class. Particular attention will be devoted to surgical diseases and injuries of the mouth, gums, and jaws, and the students will be instructed in their diagnosis, prognosis, and treatment, both by lectures and clinical demonstrations.

---

### CHEMISTRY AND METALLURGY.

Professor A. L. Lengfeld, in his course, will deliver two lectures each week, devoting special attention to that part of Chemistry which pertains more particularly to Dentistry. The lectures will be fully illustrated by means of all the necessary chemical and philosophical apparatus and numerous experiments. The nature, physical and chemical properties of the various remedies employed in Dentistry will be illustrated by the exhibition of crude drugs and pharmaceutical preparations, and by botanical plates and specimens.

The instruction in *Dental Metallurgy*, including the properties and uses of gold, silver, platinum, aluminum, zinc, lead, tin, and

their alloys, and of iron and steel, will be made very complete. Special attention will be paid to refining and alloying gold, and to estimating its fineness.

---

### **PRACTICAL CHEMISTRY.**

Dr. J. D. Hodgen, Assistant to the Chair, will conduct a systematic and practical course in Experimental Chemistry, Qualitative Analysis, and Salivary Analysis. Each student is provided with a separate table and a complete set of apparatus and chemicals, and performs individually all experiments and reactions. Two courses in practical chemistry are required.

I. *First Year.*—Following Remsen's Introduction to the Study of Chemistry as a guide, each student will perform a series of experiments in which he will develop the main principles of the science of Chemistry, and become familiar with the physical and chemical properties of the leading families of elements and their compounds.

II. *Second Year.*—The experimental work will be continued. Special regard will be given to Analytical Chemistry and the analysis of the saliva.

---

### **PRACTICAL METALLURGY.**

Practical laboratory instruction will be given by Dr. Hodgen in working of the metals, and each student will be required to conduct all the usual operations in Dental Metallurgy, as well as to make experiments in new compounds and alloys. Considerable attention will be paid to the analysis and compounding of amalgam alloys.

A fee of one dollar will be charged to cover breakage and loss.

---

### **ANATOMY.**

Professor Williamson's course in Anatomy will be illustrated by demonstrations on the cadaver, and by both wet and dry preparations, models, manikins, drawings, and diagrams, and will include the general anatomy of the entire body, with the special topographical and surgical anatomy appertaining to the head and neck.



The dissecting room is spacious, well ventilated, lighted from above, and provided with modern conveniences. It is open daily throughout the year, under the superintendence of the Professor and Demonstrator of Anatomy. A supply of material is always procurable at small cost. When dissections are conducted in a diligent manner, the student is furnished with certificates stating the amount and part dissected. One of the Demonstrators will be present daily in the dissecting room during working hours, so that students will receive the proper attention and assistance.

An osteological room will be open during the term, where students will have the opportunity of studying the anatomy of bones and articulations. Special demonstrations will be conducted in this room for members of the Freshman class.

---

## DENTAL PATHOLOGY, THERAPEUTICS, AND MATERIA MEDICA.

The lectures delivered by the incumbent of this chair will embrace a full and comprehensive course on the following topics:

1. GENERAL PATHOLOGY.—In which will be discussed those general aspects of disease with which it is necessary to be acquainted in order to be able to understand the nature of any departure from health; causes of disease, symptoms, diagnosis, prognosis, temperaments, pathology of anæsthetics, irritation, determination, congestion, inflammation and its terminations, effusion, suppuration, ulceration, gangrene, sloughing, morbid growths, etc.

2. SPECIAL PATHOLOGY.—In which a critical examination will be made into the special causes of dental decay; dental hygiene and prophylaxis; disease of the enamel—of the dentine; diseases of the dentinal pulp—together with the causes of alveolar abscess—its stages and results; exostosis of the roots and alveoli; necrosis and exfoliation; diseases of the antrum; tumors, benign and malignant; diseases of the mucous membrane.

Neuralgia and other nervous affections will receive such attention as their importance may demand; and, besides, there will be presented such other special diseases as may in any degree be of interest to the dental practitioner, such as scurvy, scrofula, rachitis and other diseases of the bones.



3. **GENERAL PRINCIPLES OF THERAPEUTICS.**—Under which head the general application of medicines will be noticed—their actions, constitutional and topical.

4. **SPECIAL THERAPEUTICS.**—In connection with Dental Materia Medica; as incidentally related thereto.

5. **MATERIA MEDICA** will be taught by lectures and recitations.

---

### **THE DENTAL LABORATORY.**

The Dental Laboratory will be in charge of the Superintendent of Infirmary, who will assign patients to students, and, with the Demonstrators of Mechanical Dentistry, will give practical instruction in preparing the mouth for the insertion of artificial teeth, taking impressions, selecting and arranging teeth, and the construction of artificial dentures on bases of vulcanite, celluloid, silver, gold, etc.; also, in alloying, refining, and preparing the metals for use. Special attention will be given to continuous gum work. On account of the length of the term, the opportunities for practice in correcting irregularities of the teeth will be unsurpassed, and will receive their share of attention.

---

### **THE DENTAL INFIRMARY.**

The Operating Department will be under the immediate supervision of the Superintendent of Infirmary, who will have entire charge.

The rooms will be open during the forenoon of Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, and during the afternoon of each day except Saturday, until 5 o'clock, when all practical matters pertaining to Operative Dentistry will be fully dealt with by the Demonstrators, one of whom will always be present. The Infirmary will be open throughout the entire year, thus affording a practical course for first and second year students unsurpassed by any similar institution. As there is always an excess of clinical material on hand, and there are six hundred and forty-eight hours per term (including three hours each Wednesday afternoon) devoted to practical consideration of diseases of the teeth and the adjacent parts, it is not difficult to estimate the advantages the students have in this department.

## DISSECTIONS.

The work in Practical Anatomy will be performed under the direction of the Demonstrator of Anatomy and his Assistant, in the dissecting room of the College of Medicine, Toland Hall, Stockton Street, between Chestnut and Francisco. The dissecting room is open throughout the entire year; a full supply of material is always on hand, at small cost, and is thoroughly preserved from decomposition. Upon the proper completion of the required dissections, the student is furnished by the Demonstrator with a certificate to that effect, which must be presented to the Dean for record.

The dissecting ticket (\$10) is good for the whole term—from January 1st to December 31st.

---

## CLINICAL INSTRUCTION.

During the course, Wednesday afternoon, from 1 to 3, will be devoted to Clinical lectures and operations by the Professors and visiting clinicians.

---

## HOSPITALS.

All students in Dentistry will have the same facilities and opportunities enjoyed by the medical students in hospital practice and observation. They will have the freedom, as above represented, of the City and County Hospital and the City Receiving Hospital.

Medical and Surgical Clinical lectures are given by the Professors of the Medical Department of the City and County Hospital, Tuesdays, Thursdays, and Saturdays, from 9 to 11 A. M.; attendance upon which, though not a requirement, is recommended, on account of the unsurpassed facilities for study of anæsthetic methods.

For further particulars on this subject, see Medical Department Announcement.

## LIBRARY AND MUSEUM.

A nucleus has been formed, from which it is hoped a large library and museum will grow. All members and friends of the profession are invited to contribute books, pamphlets and journals, charts, anatomical, physiological and pathological specimens, casts of deformities and irregularities of the teeth and associate parts, or anything that will be useful and instructive.

These contributions will be placed in the library and museum, and marked with the names of the donors, if desired.

*As a separate library and reading room is now provided, a special request is made for donations of books and pamphlets.*

The Faculty desires to gratefully acknowledge donations of books, pamphlets, and specimens from Drs. W. E. Taylor, A. L. Lengfeld, W. A. Knowles, W. F. Lewis, J. M. Whitney, Jorge Arroyo, John Rabe, F. H. Metcalf, Dr. E. L. Townsend, C. A. Litton, and the estates of the late Drs. E. F. Bunnell and W. B. Kingsbury.

L. L. DUNBAR, Dean of the Faculty,  
606 Sutter Street, San Francisco.

---

**N. B.—Boarding.** The expense of living in the city of San Francisco is very reasonable. Good board, with room-rent, may now be procured at the low rate of five dollars per week, at a convenient distance from the College building.

There is a free Public Library in San Francisco, of which students may have full benefit.

Upon arriving in the city, students will immediately register in the Dean's office, at the College building, No. 1170 Market Street.

N. B.—The above instruments and appliances must be procured by each student and submitted to the Superintendent before his seat is assigned.

# TOOLS AND APPLIANCES REQUIRED BY JUNIOR AND SENIOR STUDENTS.

## FOR LABORATORY WORK.

1 Mechanical Blow-pipe . . . . .	\$ 3.50
1 pair Plate Shears, S. S. White . . . . .	1.00
1 pair Plate Nippers, S. S. White . . . . .	2.75
1 pair Flat-nose Pliers . . . . .	.50
1 pair Round-nose Pliers . . . . .	.50
1 Plate Punch . . . . .	2.25
1 Half-round File, fine . . . . .	.25
1 Flat File, fine . . . . .	.25
1 Horn Hammer . . . . .	.38
1 Riveting Hammer, convex face . . . . .	.70
1 pair Long Soldering Pliers . . . . .	.10
1 Soldering Support . . . . .	.75
1 Swage . . . . .	
1 Artificial Plate Brush, Florence plate . . . . .	.50
1 Clasp Bender . . . . .	2.25
1 Triangular File . . . . .	.35
1 Steel Burnisher . . . . .	.50
1 Large Flat File . . . . .	.35
1 Jeweler's Saw-frame and Saws . . . . .	.60— .15
1 pair Calipers . . . . .	.25
Emery Cloth and Paper . . . . .	.50
Additional Corundum Wheels . . . . .	

## FOR ORTHODONTIA TECHNIC.

Screw Plate . . . . .	\$ 1.25
Draw Plate . . . . .	1.50
Pin Vice . . . . .	.60
Draw Tongs . . . . .	1.00

## JUNIOR AND SENIOR INSTRUMENTS FOR INFIRMARY.

*1 set of Pluggers, U. C. Set . . . . .	\$1.05†	\$8.40
*1 Jennings Case Mallet . . . . .	2.00	2.00
*1 doz. Selected Excavators, U. C. Set . . . . .	1.50	2.50
*1 set 6 Chisels, U. C. Set . . . . .	.75	1.25
*1 set Amalgam Instruments (Flagg's) . . . . .	3.00	3.00
1 doz. Cavity Burs for Engine . . . . .		2.25
¼ doz. Plug Finishing Burrs for Engine . . . . .		1.20
1 doz. Assorted Corundum and Rubber Points . . . . .		.50
1 Mandrel . . . . .		.25
¼ doz. Gold Finishing Files . . . . .		1.71
½ doz. R. Dam Clamps . . . . .		2.40
1 R. Dam Holder . . . . .		1.00

† The items in this column should be in the outfit of each student from previous purchase.



1 R. Dam Punch . . . . .			3.50
1 set R. Dam Weights . . . . .			1.00
1 pair Wedge Cutters . . . . .			2.25
*1 pair Foil Carriers . . . . .	1.00		1.00
1 pair Foil Shears . . . . .			1.00
1 pair Clamp Forceps . . . . .			3.00
1 Mouth Mirror, magnifying . . . . .			1.00
*1 Chip Blower . . . . .	.40		.40
1 Water Syringe . . . . .			1.00
1 Separating Saw . . . . .			.75
1 set of Scalars . . . . .			2.00
1 Ball and Blade Burnisher . . . . .			.50
*1 Large Arkansas Stone . . . . .	.60		.60
1 package Cleansers, No. 4 . . . . .			1.25
*1 Broach Holder . . . . .	.75		.75
1 package Orange Wood . . . . .			.10
1 Slab and Spatula for Cements . . . . .	.25	.50	.75
1 package Absorbent Cotton . . . . .			.20
1 package Spunk . . . . .			.20
1 Engine Head, Sleeve, Cable, and Hand-piece . . . . .			21.00
1 doz. 18 in. White Napkins . . . . .			
Perry or Ivory Separators—Ivory . . . . .			3.50

Students are requested to mark their property for identification.

# STUDENTS OF THE SESSION OF 1895-96.

## SENIOR CLASS.

NAME.	RESIDENCE.	PRECEPTOR.
Abrams, George . . . . .	San Francisco, Cal. .	C. L. Griswold, D.D.S.
Abrahm, Henry . . . . .	San Francisco, Cal. .	Col. of Dentistry, U.C.
Abbay, William Henry . . .	Oakland, Cal. . . .	Col. of Dentistry, U.C.
Ames, George Frederick . . .	Oakland, Cal. . . .	J. T. Rowand, D.D.S.
Ayers, Miss Marilda Jane . .	Eureka, Cal. . . . .	W. E. Cook, D.D.S.
Baird, Frederick Guernsey . .	Lodi, Cal. . . . .	Col. of Dentistry, U.C.
Baird, Mrs. Mary Louise . . .	Stockton, Cal. . . .	Col. of Dentistry, U.C.
Bennett, George Eben*. . . .	Santa Cruz, Cal. . .	F. W. Bliss, D.D.S.
Boeseke, Bertram Carl . . . .	Santa Barbara, Cal. .	M. W. Hollingsworth.
Bonnel, Franklin Calvin . . .	Tres Pinos, Cal. . .	B. F. Simmons, D.D.S. and W. A. Turum.
Bowman, Charles Harold . . .	Santa Cruz, Cal. . .	C. L. Bliss, D.D.S.
Cafferata, Albert . . . . .	San Francisco, Cal. .	Col. of Dentistry, U.C.
Carrington, Paul Tulane . . .	Oakland, Cal. . . .	Col. of Dentistry, U.C.
Chappel, Harry George . . . .	San Jose, Cal. . . .	G. F. Nevins, D.D.S.
Clark, William Nathan . . . .	Watsonville, Cal. . .	C. L. Butterfield.
Cranz, Frank Herman . . . .	San Francisco, Cal. .	J. F. Twist.
Croall, Miss Medora Vaux . .	San Francisco, Cal. .	Col. of Dentistry, U.C.
Cohn, Jacob . . . . .	Boise City, Idaho . .	Col. of Dentistry, U.C.
Cunningham, Stephen Joseph .	San Francisco, Cal. .	Col. of Dentistry, U.C.
Davis, William Edward . . . .	Sausalito, Cal. . . .	Col. of Dentistry, U.C.
Forrest, James Morton, Jr. . .	Los Gatos, Cal. . . .	Col. of Dentistry, U.C.
Fowler, Arthur A. . . . .	San Jose, Cal. . . .	Col. of Dentistry, U.C.
Gedge, H. Edward . . . . .	San Francisco, Cal. .	T. N. Iglehart.
Gilbert, Amy Maxted . . . . .	Grafton, N. S. W. . .	Col. of Dentistry, U.C.
Gilman, Charles Daniels . . . .	Oakland, Cal. . . .	Col. of Dentistry, U.C.
Greenbaum, Lawrence . . . . .	San Francisco, Cal. .	Col. of Dentistry, U.C.
Hanson, Herman Pierce . . . .	San Jose, Cal. . . .	Col. of Dentistry, U.C.
Harms, Rich'd Geo. Cornelius .	Oakland, Cal. . . .	Col. of Dentistry, U.C.
Hart, Charles Edwin . . . . .	Pacific Grove, Cal. .	Col. of Dentistry, U.C.
Harth, Arthur Philip . . . . .	Grant Pass, Or. . . .	W. H. Flanagan.
Harris, George Morgan . . . .	Oakland, Cal. . . .	Col. of Dentistry, U.C.
Hawley, Alexander Hamilton .	Sacramento, Cal. . .	Col. of Dentistry, U.C.
Haynes, George Henry . . . . .	Victoria, B. C. . . .	T. J. Jones.
Hilliard, Samuel William . . .	Lodi, Cal. . . . .	Col. of Dentistry, U.C.
Husted, Guy Brown . . . . .	Saratoga, Cal. . . .	Col. of Dentistry, U.C.
Lundborg, Konrad Magnus . .	San Francisco, Cal. .	J. A. W. Lundborg.
Maynard, Stephen Cholmeley .	San Jose, Cal. . . .	F. L. Argall.

\* Not in attendance.

NAME.	RESIDENCE.	PRECEPTOR.
MacDonald, Miss Naoma Gae	San Francisco, Cal.	Leander Van Orden, M.D., D.D.S.
McNutt, Robert B. . . . .	Sonsonáte, Salvador, C. A. . . . .	Col. of Dentistry, U.C.
Morden, Thomas Snelling . . . .	Boise City, Idaho . . . .	H. B. Copsey, D.D.S.
Pless, Fred Gustave . . . . .	San Francisco, Cal. . . .	N. T. Coulson, D.D.S.
Porter, Charles Bruce, Jr. . . .	San Francisco, Cal. . . .	Col. of Dentistry, U.C.
Raymond, George Washington.	San Francisco, Cal. . . .	E. N. Short, D.D.S.
Richards, Joseph Ignatius . . .	San Francisco, Cal. . . .	Martin F. Dunn, D.D.S.
Roth, Leon Joseph . . . . .	Los Angeles, Cal. . . .	Drs. White and Town- send.
Sawyer, Miss Anna Martin . . .	San Francisco, Cal. . . .	Col. of Dentistry, U.C.
Seager, John Herbert, A. B. . .	Constantinople, T. . . .	Col. of Dentistry, U.C.
Smith, Frank Joseph . . . . .	San Jose, Cal. . . . .	J. L. A say, M.D.
Stallman, George Edward . . .	San Francisco, Cal. . . .	Col. of Dentistry, U.C.
Stich, Benjamin Mitchell . . .	San Francisco, Cal. . . .	B. M. Gunsberger, D.D.S., and E. W. Pratt, D.D.S.
Thomas, Montgomery . . . . .	Fresno, Cal. . . . .	Col. of Dentistry, U.C.
Tobriner, Oscar . . . . .	San Francisco, Cal. . . .	Col. of Dentistry, U.C.
Todd, Clifford . . . . .	Sacramento, Cal. . . .	F. F. Tebbets.
Tompkins, George Henry. . . .	Bethany, Cal. . . . .	Col. of Dentistry, U.C.
Ware, William Henry . . . . .	San Francisco, Cal. . . .	Col. of Dentistry, U.C.
Webster, Lauren David . . . .	San Jose, Cal. . . . .	C. K. Fleming.
Weldon, Clyde Allan. . . . .	San Francisco, Cal. . . .	C. E. Post, D.D.S.
Westphal, Edward William . . .	San Francisco, Cal. . . .	O. F. Westphal, D.D.S.
White, Richard Montgomery*	San Francisco, Cal. . . .	Col. of Dentistry, U.C.

### *JUNIOR CLASS.*

NAME.	RESIDENCE.	PRECEPTOR.
Ashley, Julian Woods . . . . .	San Francisco, Cal. . . .	A. A. Gaston.
Atwater, Henry Cook . . . . .	Oakland, Cal. . . . .	Col. of Dentistry, U.C.
Atkins, John Hugh . . . . .	San Francisco, Cal. . . .	O. F. Westphal, D.D.S.
Belden, Keney Roy . . . . .	Oakland, Cal. . . . .	R. H. Cool, D.D.S.
Bosqui, Benjamin Avery . . . .	Ross, Cal. . . . .	Col. of Dentistry, U.C.
Carter, Frederick Russell † . .	Sonora, Cal. . . . .	H. F. Sullivan, D.D.S.
Clay, Edwin Andrews . . . . .	San Buenaventura. . . .	Dr. H. M. & J. M. Staire.
Coffin, Charles Alfred . . . . .	Reno, Nev. . . . .	Col. of Dentistry, U.C.
Cushing, Stephen Russell . . .	San Jose, Cal. . . . .	D. E. Nash, D.D.S.
Collins, Asa Weston . . . . .	Oakland, Cal. . . . .	Col. of Dentistry, U.C.
Colburn, Orville Mirtland. . .	Woodland, Cal. . . . .	Col. of Dentistry, U.C.
Donnelly, George Samuel . . . .	San Francisco, Cal. . . .	Col. of Dentistry, U.C.
Delucchi, John . . . . .	Jackson, Cal. . . . .	Col. of Dentistry, U.C.
Durham, Judge Haley . . . . .	Irvington, Cal. . . . .	F. Z. Pickery, D.D.S.

\* Not in attendance.

† Deceased.

NAME.	RESIDENCE.	PRECEPTOR.
Emery, Charles Abbott . . . .	San Francisco, Cal. . . .	H. C. Davis.
Fiske, Edward Sewell . . . .	San Francisco, Cal. . . .	M. F. Gabbs, D.D.S.
French, Howard West . . . .	Oakland, Cal. . . .	D. S. Richardson.
Gilbertson, James Coolidge . .	Oakland, Cal. . . .	Col. of Dentistry, U.C.
Gilson, Ray Edson . . . . .	Oakland, Cal. . . .	Col. of Dentistry, U.C.
Harnden, Frederick William . .	San Francisco, Cal. . . .	S. H. Tolhurst.
Harvey, William Hardgrave . .	Salinas, Cal. . . . .	Col. of Dentistry, U.C.
Higgins, Theo. Shelton . . . .	Worcester, Mass. . . .	Col. of Dentistry, U.C.
Holladay, William Robin . . .	Pomona, Cal. . . . .	H. W. Brodbeck, D.D.S.
Houck, Fred Horn . . . . .	Ashland, Or. . . . .	Col. of Dentistry, U.C.
Hughes, Walter Renwick . . . .	Fresno, Cal. . . . .	Col. of Dentistry, U.C.
Herrington, William Merced . .	Fresno, Cal. . . . .	B. B. Cory, D.D.S.
Jarvis, Chas. Fitz Howard . . .	Oakland, Cal. . . . .	Col. of Dentistry, U.C.
Jones, Paul Clinton . . . . .	Ross, Cal. . . . .	Col. of Dentistry, U.C.
Johnson, Frank D. . . . .	Chico, Cal. . . . .	Col. of Dentistry, U.C.
Keeffe, Edmond Douglas . . . .	San Francisco, Cal. . . .	H. G. Young.
Kerwin, Louis Joseph . . . . .	West Side, Cal. . . . .	Col. of Dentistry, U.C.
Kleiser, George William . . . .	Cloverdale, Cal. . . .	Col. of Dentistry, U.C.
Louisson, William . . . . .	Honolulu, H. I. . . .	Col. of Dentistry, U.C.
Marckres, Clair Cutting . . . .	San Jose, Cal. . . . .	Col. of Dentistry, U.C.
Morris, Julius Ira . . . . .	Los Angeles, Cal. . . .	J. A. Cronkhite.
McCarthy, Chas. Joseph . . . .	Napa, Cal. . . . .	E. M. Porter.
McGowan, James Lewis . . . .	San Francisco, Cal. . . .	G. B. Lemon.
Nelson, Nels Henry . . . . .	Provo, Utah . . . . .	Ohio Col. Den. Surg'y.
Pearce, Frederick Bright . . . .	San Jose, Cal. . . . .	Frank L. Argall.
Plunkett, James Arthur . . . .	Oakland, Cal. . . . .	Col. of Dentistry, U.C.
Quirk, Thomas Hopkins . . . .	Gold Hill, Nev. . . .	Col. of Dentistry, U.C.
Robinson, Miss Frank Oniska . .	Petaluma, Cal. . . . .	Col. of Dentistry, U.C.
Rulison, Miss Helen May . . . .	Reno, Nev. . . . .	Col. of Dentistry, U.C.
Russell, Edward Weld . . . . .	Martinez, Cal. . . . .	W. A. Moore.
Reich, Chas. Louis . . . . .	San Francisco, Cal. . . .	Col. of Dentistry, U.C.
Scott, Miss Fannie Elsie . . . .	Oakland, Cal. . . . .	S. P. Tate, Jr.
Stealey, Edwin Matthew . . . .	San Francisco, Cal. . . .	Col. of Dentistry, U.C.
Smith, Robert Edward . . . . .	San Jose, Cal. . . . .	Col. of Dentistry, U.C.
Stiles, Henry. . . . .	San Jose, Cal. . . . .	Col. of Dentistry, U.C.
Summer, Charles Maurice . . . .	San Jose, Cal. . . . .	J. L. Asay, M.D.
Thomas, David Pickard. . . . .	Brighton, England . . .	Col. of Dentistry, U.C.
Travers, Harry Pierce . . . . .	Oakland, Cal. . . . .	Col. of Dentistry, U.C.
Upton, Edward Albright . . . .	Oakland, Cal. . . . .	Col. of Dentistry, U.C.
Wachs, Martin . . . . .	Oakland, Cal. . . . .	W. E. Brooks.
Wheeler, Thos. Rattray . . . .	Concord, Mass. . . . .	Boston Dental College.

### FRESHMAN CLASS.

NAME.	RESIDENCE.	PRECEPTOR.
Allen, Henry Graham . . . .	San Francisco, Cal. . . .	C. L. Ziegler, D.D.S.
Arellanes, John B., Jr. . . . .	Santa Maria, Cal. . . .	W. J. Marsh, D.D.S.
Alexander, Milton Oscar . . . .	San Francisco, Cal. . . .	O. P. Myers.



NAME.	RESIDENCE.	PRECEPTOR.
Aiken, Perley Bosworth . . .	Paia, I. of Maui, H. I.	Col. of Dentistry, U.C.
Beers, Mabel Lucille Miss . .	San Francisco, Cal.	Col. of Dentistry, U.C.
Browning, William F. . . .	San Francisco, Cal.	Geo. I. Drucker, D.D.S.
Burridge, Walter Joseph . . .	San Francisco, Cal.	Harry G. Young.
Bullen, J. Fitzherbert . . . .	Chicago, Ill. . . . .	Col. of Dentistry, U.C.
Cline, Jean . . . . .	Portland, Or. . . . .	Col. of Dentistry, U.C.
Cooper, John Hill . . . . .	Campbell, Cal. . . . .	Col. of Dentistry, U.C.
Clark, Marcellus Edmund . . .	San Francisco, Cal.	J. D. Hodgen, D.D.S.
Craig, Homer Theodore . . . .	Oakland, Cal. . . . .	Col. of Dentistry, U.C.
Chappell, Albert . . . . .	San Jose, Cal. . . . .	Col. of Dentistry, U.C.
Du'Bois, Charles Hall . . . . .	San Rafael, Cal. . . . .	Col. of Dentistry, U.C.
Douglass, Clarence Washington	San Diego, Cal. . . . .	Col. of Dentistry, U.C.
Edwards, Andrew Lewis . . . .	San Francisco, Cal.	Col. of Dentistry, U.C.
Estes, Weston Burgess . . . .	Sacramento, Cal. . . .	W. C. Reith, D.D.S.
Fairweather, Norman Stanley .	San Francisco, Cal.	Chas. Boxton, D.D.S.
Gilbert, Andrew James . . . .	Oakland, Cal. . . . .	S. P. Tate.
Gottenberg, Hartley Williams .	Oakland, Cal. . . . .	F. J. Lane, D.D.S.
Griffith, Charles Moses . . . .	San Jose, Cal. . . . .	Warren DeCrow.
Hall, Robert Thomas . . . . .	Fresno, Cal. . . . .	Col. of Dentistry, U.C.
Harkinson, Frank R.* . . . .	Oakland, Cal. . . . .	C. S. Payne, D.D.S.
Halsey, Norman Hartley . . . .	Oakland, Cal. . . . .	W. H. Halsey, D.D.S.
Henderson, William Daniel . .	Berkeley, Cal. . . . .	C. C. Cornwell.
Hiniker, Andrew Jackson . . .	San Rafael, Cal. . . . .	Col. of Dentistry, U.C.
Howard, Amos F.* . . . .	Vallejo, Cal. . . . .	Col. of Dentistry, U.C.
Hines, John Percy . . . . .	Fresno, Cal. . . . .	H. J. Plomteaux, D.D.S.
Hinckley, Ira Loomis . . . . .	Fillmore, Cal. . . . .	Col. of Dentistry, U.C.
Jones, Edward Morgan . . . . .	Ross Valley, Cal. . . . .	Col. of Dentistry, U.C.
Jones, Perley Centennial . . .	Pacific Grove, Cal. . . .	Dr. J. Van Horner.
Jones, Thomas Rodney . . . .	Martinez, Cal. . . . .	T. J. Frazer, D.D.S.
Kelley, Norman Douglass . . .	San Francisco, Cal.	H. C. Davis.
Klein, Charles William* . . . .	Berkeley, Cal. . . . .	Col. of Dentistry, U.C.
Lackey, Warren Lafayette . . .	Gold Hill, Nev. . . . .	J. T. Thomas, D.D.S.
Lemmon, Charles Fisher . . . .	San Francisco, Cal.	A. T. Derby, D.D.S.
Linscott, William Raymond . .	Santa Cruz, Cal. . . . .	J. P. Parker, D.D.S.
MacDonald, Flora Mae Miss . .	San Francisco, Cal.	Col. of Dentistry, U.C.
MacLaurin, James Briarcliffe .	Sydney, N. S. W. . . . .	Dr. C. G. Hoopson.
Mariotte, Louis Paul . . . . .	Oakland, Cal. . . . .	Col. of Dentistry, U.C.
McPike, Charles Luttrell . . . .	Vallejo, Cal. . . . .	Col. of Dentistry, U.C.
Menton, Hubert Oscar Francis .	Santa Clara, Cal. . . . .	G. H. Worrall, D.D.S.
Millar, Jas. Benjamin Franklin	San Francisco, Cal.	C. H. Bell, D.D.S.
Morrison, Frank Elihu . . . .	N. Westminster, B. C.	Col. of Dentistry, U.C.
Morey, Charles Leonard . . . .	Oakland, Cal. . . . .	Col. of Dentistry, U.C.
Mulrenin, Edward Martin . . .	San Francisco, Cal.	N. T. Coulson, D.D.S.
Myrick, Joseph Francis . . . .	San Francisco, Cal.	Col. of Dentistry, U.C.
Nathan, Alfred Cooper . . . .	Sydney, N. S. W. . . . .	Dr. C. G. Hoopson.

\* Not in attendance.



NAME.	RESIDENCE.	PRECEPTOR.
Painter, Jerome B. . . . .	Alameda, Cal. . . . .	Col. of Dentistry, U.C.
Parker, Helen Agnes Miss . . . . .	Oakland, Cal. . . . .	Col. of Dentistry, U.C.
Perkins, Edward Worthington . . . . .	Petaluma, Cal. . . . .	C. O. Perkins.
Pratt, Armstrong Cooper . . . . .	San Bernardino, Cal. . . . .	Col. of Dentistry, U.C.
Rentsch, Fredrick* . . . . .	San Francisco, Cal. . . . .	Col. of Dentistry, U.C.
Rulofson, Alfred Currie, Jr. . . . .	San Francisco, Cal. . . . .	Col. of Dentistry, U.C.
Schillig, George E. . . . .	Yuba City, Cal. . . . .	Col. of Dentistry, U.C.
Scott, Franklin Trewick . . . . .	Sacramento, Cal. . . . .	Col. of Dentistry, U.C.
Sellwood, Frank Convers . . . . .	Salem, Or. . . . .	Col. of Dentistry, U.C.
Simms, John Benjamin* . . . . .	Redwood City, Cal. . . . .	Col. of Dentistry, U.C.
Sisson, Ernest Kirkpatrick . . . . .	San Francisco, Cal. . . . .	J. P. Parker, D.D.S.
Smith, Thomas Martin, Jr. . . . .	San Jose, Cal. . . . .	Col. of Dentistry, U.C.
Smyth, Walter Joseph . . . . .	Oakland, Cal. . . . .	Col. of Dentistry, U.C.
Soher, Henry Charles* . . . . .	San Francisco, Cal. . . . .	H. G. Young.
Spooner, Charles Walter . . . . .	Weston, Cal. . . . .	Col. of Dentistry, U.C.
Stalder, Joseph Mehlert . . . . .	Oakland, Cal. . . . .	Col. of Dentistry, U.C.
Stanford, George Grant . . . . .	San Francisco, Cal. . . . .	Col. of Dentistry, U.C.
Stephens, Charles Joy . . . . .	Paris, Ky. . . . .	Col. of Dentistry, U.C.
Stevens, Harry Arthur* . . . . .	San Jose, Cal. . . . .	C. C. Maynard.
Stewart, George Henry . . . . .	San Francisco, Cal. . . . .	C. L. Zigler, D.D.S.
Tyrrell, James Charles* . . . . .	Grass Valley, Cal. . . . .	Col. of Dentistry, U.C.
Van Amringe, David . . . . .	Oakland, Cal. . . . .	Edgar L. Dow, D.D.S.
Walden, William Alfred . . . . .	Stockton, Cal. . . . .	Col. of Dentistry, U.C.
Wanz, Arthur Henry . . . . .	San Francisco, Cal. . . . .	Henry Sylvester, Jr., D.D.S.
Ward, Herbert Bruce . . . . .	San Francisco, Cal. . . . .	Col. of Dentistry, U.C.
Warnekros, William Louis . . . . .	Fresno, Cal. . . . .	Col. of Dentistry, U.C.
Watkins, Frank Dilts . . . . .	San Jose, Cal. . . . .	F. K. Ledyard.
Williams, John Jarvis* . . . . .	Modesto, Cal. . . . .	Col. of Dentistry, U.C.
Wilcoxon, Caleb Russell . . . . .	Yuba City, Cal. . . . .	C. L. Zigler, D.D.S.
Worthington, Miss Jean Irene . . . . .	San Francisco, Cal. . . . .	Col. of Dentistry, U.C.
Wymore, George Henry . . . . .	Melitta, Cal. . . . .	Col. of Dentistry, U.C.

### SPECIAL STUDENTS.

NAME.	RESIDENCE.	PRECEPTOR.
Blossom, Miss May . . . . .	Genoa, Nev. . . . .	Col. of Dentistry, U.C.
Price, Evan, U. S. A. . . . .	San Francisco, Cal. . . . .	Col. of Dentistry, U.C.

### SUMMARY.

SENIORS . . . . .	59
JUNIORS . . . . .	55
FRESHMAN . . . . .	79
SPECIAL STUDENTS . . . . .	2

Total . . . . . 195

\* Not in attendance.

## GRADUATES.

---

### 1882.

Thomas Watson Hall . . . . . Oakland, California  
Charles Wesley Hibbard . . . . . San Francisco, California  
Thomas Morffew . . . . . San Francisco, California  
Henry John Plomteaux . . . . . Oakland, California  
Charles Wesley Richards . . . . . San Francisco, California  
Gustave William Sichel, M. D. . . . . San Francisco, California  
William Henry Stanley . . . . . San Francisco, California  
August Van Crombrughe † . . . . . San Francisco, California

### 1883.

John Nelson Blood \* . . . . . Greenville, California  
Charles Boxton . . . . . San Francisco, California  
Maria Angelina Burch \* . . . . . Pescadero, California  
Edward Overton Cochrane . . . . . San Francisco, California  
Russell Hopkins Cool . . . . . Oakland, California  
Milton Francis Gabbs . . . . . San Francisco, California  
William Edmund Price . . . . . San Francisco, California

### 1884.

George Washington Cool . . . . . Guatemala, Central America  
John Michael Dunn . . . . . Oakland, California  
Archibald Duncan Gleaves . . . . . Anderson, California  
Robert Nicol . . . . . India  
Gustave Carl Reitzke . . . . . San Francisco, California  
William Henry Simmons . . . . . Oakland, California  
Elmer Joseph Weldon . . . . . Vacaville, California

### 1885.

Henry Sylvester Bettis . . . . . Boise City, Idaho  
George Botsford . . . . . San Francisco, California  
Daniel Barratt Cate . . . . . Quincy, California  
Nathaniel Thomas Coulson . . . . . San Francisco, California  
George Ihmer Drucker . . . . . San Francisco, California  
William Ellis Fitzpatrick . . . . . San Francisco, California  
Walter Robert Henderson . . . . . Stockton, California  
John Adams Douglas Hutton . . . . . West Berkeley, California  
Franklin Pancoast . . . . . San Francisco, California  
Charles Theodore Rodolph . . . . . Oakland, California

---

\* Deceased.

† Name changed to August Van Crom by Superior Court, San Francisco, July 22, 1889.

Frederick Judson Saxe, A. M. . . . . Oakland, California  
Joseph Schneider . . . . . San Salvador, Central America  
Henry Sylvester, Jr. . . . . San Francisco, California

**1886.**

Harry Putnam Carlton . . . . . San Francisco, California  
Hector Ludovic Couret . . . . . Sonora, Mexico  
Martin Joseph Dunn . . . . . San Francisco, California  
Nicholas Anton Givovich . . . . . Cardiff, Wales  
John Gow Humphrey . . . . . Alameda, California  
Thomas Harvey Morris . . . . . San Francisco, California  
William Cormack Reith . . . . . Sacramento, California  
Joseph Emil Sand . . . . . San Francisco, California  
Benjamin Franklin Simmons . . . . . Oakland, California  
William Oltman Stuttmeister . . . . . Redwood City, California  
William Grover Sylvester . . . . . San Francisco, California

**1887.**

Edward Livingston Davis . . . . . San Jose, California  
Joseph Dupuy Hodgen . . . . . San Francisco, California  
Harold McKean Jones . . . . . Cloverdale, California  
Edward Maldonado . . . . . San Francisco, California  
Robert Eugene Payne . . . . . San Francisco, California  
Charles Edgar Post . . . . . San Francisco, California  
Arthur Theodore Regensburger . . . . . San Francisco, California  
George Frederick Rodden . . . . . San Francisco, California  
George Walter Rodolph . . . . . Oakland, California  
Granville Eugene Shuey . . . . . East Oakland, California  
Jennie Martin Simpson . . . . . San Francisco, California  
Otto Frank Westphal . . . . . San Francisco, California

**1888.**

Ira Hart Chapman . . . . . San Francisco, Cal.  
Samuel Alston Hackett . . . . . Oakland, California  
Frank Lewis Hultberg . . . . . San Francisco, California  
Philander McCargar . . . . . Oakland, California  
Joseph Pfister . . . . . Suisun, California  
William George Shankey . . . . . San Francisco, California  
Edward Nelson Short . . . . . San Francisco, California  
Charles Sawtelle Weston . . . . . Oakland, California

**1889.**

Milton Ross Gambitz . . . . . San Francisco, California  
Benjamin Mitchell Gunzberger . . . . . San Francisco, California  
William Alexander Meyer . . . . . San Francisco, California  
Warren Guice Mobley . . . . . Oakland, California  
Dorr Nash . . . . . San Jose, California  
Andrew John Powell . . . . . Haywards, California  
Edward William Pratt . . . . . San Francisco, California  
Frederick Courtland Sutliff . . . . . Sacramento, California  
Arthur Henry Wallace . . . . . San Francisco, California

1890.

Frederick Harrison Allbright . . . . .	Red Bluff, California
Gotthard Sigismund Backman . . . . .	San Francisco, California
Frank Drake Burleson . . . . .	Santa Cruz, California
Paul Charles Erhardt . . . . .	San Francisco, California
William T. Heider . . . . .	Oakland, California
Charles Alex Herrick . . . . .	Jackson, California
Saul Robert Jacobs . . . . .	San Francisco, California
Charles Ashby Litton . . . . .	San Francisco, California
Walter Romain Lovegrove . . . . .	San Francisco, California
George Martin . . . . .	Berlin, Germany
Clark Harrison Rawson . . . . .	Jamestown, New York
Richard McCargar . . . . .	San Francisco, California
John Matthew Redmond . . . . .	Santa Rosa, California
David Warren Rilison . . . . .	Reno, Nevada
William Fuller Sharp . . . . .	San Francisco, California
Albert John Sylvester . . . . .	San Francisco, California

1891.

Josephine Wright Armstrong . . . . .	San Francisco, California
Charles Franklin Bauer . . . . .	San Francisco, California
Charles Henry Bell . . . . .	San Francisco, California
John Millard Blodgett . . . . .	Lodi, California
Cecil Corwin . . . . .	Oakland, California
D. Carter Elliott . . . . .	Martinez, California
Philip Foster Frear . . . . .	Oakland, California
Charles Lawrence Griswold . . . . .	_____
Charles George Hyde* . . . . .	Merced, California
Edwin Chandler Hyde . . . . .	Phoenix, Arizona
William Martin . . . . .	Oakland, California
John Patrick McCarthy . . . . .	San Francisco, California
Charles Avan Meek . . . . .	San Francisco, California
Albert Dean Elmore Miles . . . . .	San Francisco, California
Robert Forrester Millar . . . . .	Alameda, California
Robert Isaac Moore . . . . .	Honolulu, H. I.
Howard Delos Noble . . . . .	San Francisco, California
Forrest Hoy Orton . . . . .	St. Paul, Minnesota
Frank Harry Phillips . . . . .	Hollister, California
Harry Griffin Richards . . . . .	San Francisco, California
Harold Lawrence Seager . . . . .	San Francisco, California
Harry Howard Shaw . . . . .	San Francisco, California
George Newins Van Orden . . . . .	San Francisco, California
Gustavus Adolphus Weyer . . . . .	Modesto, California

---

\* Deceased.



**1892-93.\***

Edmund James Alger . . . . .	Santa Cruz, California
Reginald Heber Allen . . . . .	Lodi, California
Jorge Arroyo . . . . .	Guatemala, Central America
Frank Parker Ashworth . . . . .	San Jose, California
William Nelson Avery . . . . .	San Jose, California
Augustus Griffin Bennett, Jr. . . . .	San Jose, California
Paul Stirling Coke . . . . .	San Jose, California
Emile William Davis . . . . .	Melbourne, Australia
Cecil Chalmers Dennis . . . . .	San Francisco, California
Albert Terrill Derby . . . . .	San Francisco, California
William Caughlin Grove . . . . .	Oakland, California
Wilbur Hanford Halsey . . . . .	Oakland, California
George Herman Huddy . . . . .	Honolulu, H. I.
Oscar Litchfield . . . . .	Healdsburg, California
William Andrew McQuitty . . . . .	San Francisco, California
George Hubbard Meredith . . . . .	
Edward Thomas Mervy . . . . .	Oakland, California
Edward Franklin Parr . . . . .	Chico, California
Corydon B. Root . . . . .	San Francisco, California
Ernest Frederick Schlott . . . . .	San Francisco, California
Frederick Schumacher . . . . .	San Jose, California
Walter Kendal Scott . . . . .	San Francisco, California
James Graham Sharp . . . . .	San Francisco, California
Allen Holman Suggett, B. S. . . . .	Marysville, California
Harry Francis Sullivan . . . . .	Oakland, California
Robert Lee Taylor . . . . .	San Francisco, California
William Emmet Taylor . . . . .	Oakland, California
Joseph Treleaven Thomas† . . . . .	Gold Hill, Nevada

**1893-94.**

Edward Ellsworth Baird . . . . .	Sanger, California
William Henry Cavell . . . . .	Carson, Nevada
McCoy Chappell . . . . .	Lompoc, California
Conrad Deichmiller . . . . .	San Francisco, California
John Alvin Gibbon . . . . .	San Francisco, California
Gilbert Fuller Graham . . . . .	San Francisco, California
Robert Frederick Gray . . . . .	Crescent City, California
Walter Simpson Jewell . . . . .	Oakland, California
James William Likens . . . . .	San Francisco, California
William O'Rourke . . . . .	Oakland, California
Henry Powell, Jr. . . . .	Haywards, California
Walter Judson Taylor . . . . .	Sacramento, California
Leander Van Orden, M. D. . . . .	San Francisco, California
Thomas Augustus Vogel . . . . .	San Francisco, California

\* Session changed from summer to winter.

† Deceased.



David John Vogelmann . . . . . Vallejo, California  
Walter Irving Wilcox . . . . . San Francisco, California  
Charles Custar Wood . . . . . Modesto, California  
William Henry Wadsworth . . . . . Ukiah, California

1894-95.

William Amos Atwood . . . . . San Francisco, California  
Frederick Richard Axton . . . . . San Francisco, California  
Thomas Francis Barrett . . . . . San Francisco, California  
Herbert Andrew Bernard . . . . . San Francisco, California  
John Nicholas Borger . . . . . San Francisco, California  
John Bennett Bowles . . . . . Guatemala, Central America  
James Albert Brown . . . . . San Francisco, California  
Louis Ettienne Brun, B. S. . . . . San Francisco, California  
Byron Leonard Carpenter . . . . . Poplar, California  
Ralph Charles Coleman . . . . . San Francisco, California  
David Milton Coney . . . . . San Francisco, California  
Eugene Morris Dodson . . . . . Paso Robles, California  
Oscar Plank Fitch . . . . . Placerville, California  
James Garrett Fitzgibbon . . . . . San Francisco, California  
Arthur Morris Flood . . . . . San Francisco, California  
Arthur James Ford . . . . . Taylorsville, California  
Reuben Lyon Hale . . . . . Martinez, California  
Eminel Potter Halsted . . . . . San Francisco, California  
John Ross Hardy . . . . . Boston, Mass.  
Charles Peter Hauselt . . . . . San Francisco, California  
Edward Shortridge Holloway . . . . . College City, California  
Joseph Arthur Jeffrey . . . . . San Francisco, California  
William Berridge Ludlow . . . . . Oakland, California  
Frances Asbury McCan . . . . . Stockton, California  
Amiel Morris . . . . . Woodland, California  
Robert Emmett O'Connell . . . . . San Francisco, California  
Clarence Hubert Pearce . . . . . Watsonville, California  
Robert Henry Porterfield . . . . . San Francisco, California  
Fred Earl Sawyer . . . . . San Rafael, California  
Leo Sichel . . . . . San Francisco, California  
Walter E. Singleton . . . . . San Francisco, California  
Robert Washington Smith . . . . . San Francisco, California  
Harley Howard Stephenson . . . . . Sacramento, California  
Edward Lord Strain . . . . . San Francisco, California  
Arthur Livingston Tibbitts . . . . . Petaluma, California  
Newton Booth Wachhorst . . . . . Sacramento, California  
Edwin Ruthven Waterman . . . . . San Francisco, California  
Frederick Heilbron White\* . . . . . San Francisco, California

---

\* Deceased.

1895-96.

William Henry Abbay . . . . .	Oakland, California
Henry Abrahm . . . . .	San Francisco, California
George Abrams . . . . .	Willows, California
Marilda Jane Ayers . . . . .	San Francisco, California
Frederick Guernsey Baird . . . . .	San Francisco, California
Mary Louise Baird . . . . .	San Francisco, California
Bertram Carl Boeseke . . . . .	Santa Barbara, California
Franklin Calvin Bonnel . . . . .	Hollister, California
Charles Harold Bowman . . . . .	San Francisco, California
Albert Cafferata . . . . .	San Francisco, California
Paul Tulane Carrington . . . . .	Oakland, California
Harry George Chappel . . . . .	San Jose, California
William Nathan Clark . . . . .	Watsonville, California
Frank Herman Cranz . . . . .	San Francisco, California
Jacob Cohn . . . . .	Boise City, Idaho
Stephen Joseph Cunningham . . . . .	San Francisco, California
William Edward Davis . . . . .	San Francisco, California
James Morton Forrest, Jr. . . . .	Los Gates, California
Arthur A. Fowler . . . . .	San Jose, California
H. Edward Gedge . . . . .	San Francisco, California
Amy Maxted Gilbert* . . . . .	San Francisco, California
Charles Daniels Gilman . . . . .	Oakland, California
Lawrence Greenbaum . . . . .	San Francisco, California
Richard Geo. Cornelius Harms . . . . .	Oakland, California
Charles Edwin Hart . . . . .	Pacific Grove, California
Arthur Philip Harth . . . . .	Grant's Pass, Oregon
George Morgan Harris . . . . .	Oakland, California
Alexander Hamilton Hawley . . . . .	Sacramento, California
George Henry Haynes . . . . .	Victoria, B. C.
Samuel William Hilliard . . . . .	San Francisco, California
Guy Brown Husted . . . . .	Saratoga, California
Konrad Magnus Lundborg . . . . .	San Francisco, California
Stephen Cholmeley Maynard . . . . .	San Jose, California
Naoma Gae MacDonald . . . . .	San Francisco, California
Robert B. McNutt . . . . .	San Francisco, California
Thomas Snelling Morden . . . . .	Boise City, Idaho
Fred Gustave Pless . . . . .	San Francisco, California
Charles Bruce Porter, Jr. . . . .	San Francisco, California
Joseph Ignatius Richards . . . . .	San Francisco, California
Leon Joseph Roth . . . . .	Los Angeles, California
Anna Martin Sawyer . . . . .	San Francisco, California
John Herbert Seager, A. B. . . . .	San Francisco, California
Frank Joseph Smith . . . . .	San Jose, California
George Edward Stallman . . . . .	San Francisco, California
Benjamin Mitchell Stich . . . . .	San Francisco, California

\* Registered "Rowland."

Montgomery Thomas . . . . .	Fresno, California
Oscar Tobriner . . . . .	San Francisco, California
Clifford Todd . . . . .	Sacramento, California
William Henry Ware . . . . .	San Francisco, California
Lauren David Webster . . . . .	San Jose, California
Clyde Allen Weldon . . . . .	Sacramento, California
Edward William Westphal . . . . .	San Francisco, California

N. B.—Graduates are requested to forward their correct address to the Dean.

---

## COMMENCEMENT, 1895-96.

---

The Fourteenth Commencement Exercises of the College of Dentistry of the University of California were held at Odd Fellows' Hall, San Francisco, Thursday, June 18, 1896, at 8 o'clock P. M.

### ORDER OF EXERCISES.

MARCH, "Anniversary," . . . . .	<i>George Rosey</i>
OVERTURE, "William Tell," . . . . .	<i>Rossini</i>
PRAYER, . . . . .	REV. W. W. BOLTON, A. M.
CAPRICE, "Tender and True," . . . . .	<i>Tobani</i>
ADDRESS ON BEHALF OF THE FACULTY, PROF. JOHN M. WILLIAMSON, M. D.	
SELECTION, "Robin Hood," . . . . .	<i>De Koven</i>
CONFERRING DEGREES OF DOCTOR OF DENTAL SURGERY, MARTIN KELLOGG, A. M., LL. D., President of the University.	
SELECTION, "Bohemian Girl," . . . . .	<i>Balfe</i>
BENEDICTION, . . . . .	REV. W. W. BOLTON, A. M.
CAPRICE, "Bijou," . . . . .	<i>Moses</i>

# THE ALUMNI ASSOCIATION

OF THE

COLLEGE OF DENTISTRY, UNIVERSITY OF CALIFORNIA.

---

The objects of this Society are to sustain and advance the prosperity of our ALMA MATER, by cultivating a fraternal feeling among the Alumni, by aiding in all efforts to elevate the standard of Dental Education, and extending the progress of Dental Science and Art.

At the last annual meeting the following resolution was adopted :

*Resolved*, That all graduates that have not allied themselves with this Association, and the Class of '96, be invited to affiliate at the coming midsummer meeting, without the cost of an admission fee.

*Two Meetings* are held yearly: one on the evening of the annual College Commencement (followed by the annual Alumni banquet), and the other during the mid-term of the College, subject to the call of the Executive Committee.

The following officers have been elected for the current year:

PRESIDENT . . . . .	L. VAN ORDEN, M.D., D.D.S.
VICE-PRESIDENT . . . . .	J. M. DUNN, D.D.S.
REC. SECRETARY . . . . .	H. G. RICHARDS, D.D.S.
COR. SECRETARY . . . . .	H. D. NOBLE, D.D.S.
TREASURER . . . . .	P. C. ERHARDT, D.D.S.

## EXECUTIVE COMMITTEE.

C. A. LITTON, D.D.S.	H. L. SEAGER, D.D.S.
G. N. VAN ORDEN, D.D.S.	S. R. JACOBS, D.D.S.
W. F. SHARP, D.D.S., D.M.D.	

All Alumni are urgently requested to identify themselves with the Association, and to assist in promoting its welfare and advancing its objects.

# UNIVERSITY OF CALIFORNIA.

## MEDICAL DEPARTMENT.

### FACULTY.

- MARTIN KELLOGG, A.M., LL.D., President of the University, and *ex-officio* President of the Faculty.
- G. E. SHURTLEFF, M.D., Emeritus Professor of Mental Diseases and Medical Jurisprudence.
- R. BEVERLY COLE, A.M., M.D., M.R.C.S. (Eng.), Professor of Obstetrics and Gynecology.
- W. F. McNUTT, M.D., M.R.C.P. (Edin.), etc., Professor of Principles and Practice of Medicine.
- ROBERT A. McLEAN, M.D., Professor of Clinical and Operative Surgery, Dean.
- W. E. TAYLOR, M.D., Professor of Principles and Practice of Surgery.
- A. L. LENGFELD, M.D., Professor of Materia Medica and Medical Chemistry.
- BENJ. R. SWAN, M.D., Professor of Diseases of Children.
- GEORGE H. POWERS, A.M., M.D., Professor of Ophthalmology and Otolaryngology.
- WM. WATT KERR, A.M., M.B., C.M., Professor of Clinical Medicine.
- ARNOLD A. D'ANCONA, A.B., M.D., Professor of Physiology.
- DOUGLASS W. MONTGOMERY, M.D., Professor of Diseases of the Skin.
- WASHINGTON DODGE, M.D., Professor of Therapeutics.
- JOHN M. WILLIAMSON, M.D., Professor of Anatomy.
- JOHN W. ROBERTSON, A.B., M.D., Professor of Nervous and Mental Diseases.
- JOHN C. SPENCER, A.B., M.D., Professor of Pathology and Histology.
- W. E. HOPKINS, M.D., Associate Professor of Ophthalmology and Otolaryngology.
- GEO. F. SHIELS, M.D., F.R.C.S.E., Associate Professor of Principles and Practice of Surgery.
- CHAS. A. von HOFFMANN, M.D., Associate Professor of Gynecology.
- WM. B. LEWITT, M.D., Associate Professor of Diseases of Children.
- J. HENRY BARBAT, Ph.G., M.D., Adjunct to the Chair of Anatomy.
- WM. J. HAWKINS, M.D., Adjunct to the Chair of Physiology.
- HENRY B. A. KUGELER, Adjunct to the Chair of Pathology and Histology.
- F. T. GREEN, Ph.G., Adjunct to the Chair of Materia Medica and Chemistry.



RICHARD M. H. BERNDT, M.D., Adjunct to the Chair of Therapeutics.

JAMES F. McCONE, B.S., M.D., Assistant to the Chair of Obstetrics.

SAM. P. TUGGLE, M.D., Demonstrator of Anatomy.

S. J. FRASER, A.B., M.D., Senior Assistant Demonstrator of Anatomy.

EDWIN BUNNELL, A.B., M.D., Junior Assistant Demonstrator of Anatomy.

HENRY A. L. RYFKOGEL, M.D., Junior Assistant Demonstrator of Anatomy.

WM. G. HAY, M.D., Junior Assistant Demonstrator of Anatomy.

---

COLLEGE DISPENSARY STAFF.

*Medicine —*

WASHINGTON DODGE, M.D.

H. D. ROBERTSON, M.D.

T. B. W. LELAND, M.D.

*Surgery —*

JOHN M. WILLIAMSON, M.D.

A. K. HAPERSBERG, M.D.

H. B. A. KUGELER, M.D.

*Ophthalmology and Otology —*

GEO. H. POWERS, M.D.

GEO. W. MERRITT, M.D.

JOS. P. HULL, M.D.

*Gynecology —*

R. BEVERLY COLE, M.D.

CHAS. A. VON HOFFMANN, M.D.

JAS. C. McCONE, M.D.

*Cutaneous and Venereal Diseases —*

DOUGLASS W. MONTGOMERY, M.D.

WM. G. HAY, M.D.

*Orthopedic Surgery —*

HARRY M. SHERMAN, M.D.

---

The session begins September 1st and continues eight calendar months.

Graduates of Dental Colleges in good standing are admitted to the Junior Class upon passing a satisfactory examination in the curriculum of the Sophomore year.

The course extends over four years of medical study. Graduates of recognized literary and scientific colleges, and those who have spent two years in the natural science course of a recognized university, are admitted to the Sophomore Class without examination.

ROBERT A. McLEAN, Dean,

305 Kearny Street, San Francisco, Cal.

# UNIVERSITY OF CALIFORNIA.

---

## DEPARTMENT OF PHARMACY.

---

### CALIFORNIA COLLEGE OF PHARMACY.

#### FACULTY.

MARTIN KELLOGG, A. M., LL. D., President of the University and *ex-officio* President of the Faculty.

HERRMANN H. BEHR, M. D., Emeritus Professor of Botany.

WILLIAM T. WENZELL, M. D., Ph. D., Ph. M., Professor of Chemistry.

J. J. B. ARGENTI, Ph. G., Professor of Botany.

J. CALVERT, Ph. C., Professor of Pharmacy.

JEROME J. B. ARGENTI, Ph. G., Professor of Microscopy and Vegetable Histology.

WILLIAM M. SEARBY, Ph. C., Professor of Materia Medica, and Dean.

F. T. GREEN, Ph. G., Professor of Analytical and Pharmaceutical Chemistry, and Directory of the Laboratory.

ROBERT A. LEET, Ph. G., Instructor in Chemistry.

H. E. D. BESTHORN, Ph. G., Instructor in Pharmacy.

OTTO A. WEIHE, Ph. G., Instructor in Materia Medica.

M. R. GIBSON, Ph. G., Instructor in Microscopy.

---

The College is equipped with every requisite for teaching the various branches pertaining to Pharmacy, including Materia Medica Museum, Analytical, Pharmaceutical and Microscopical Laboratories.

The requirements for admission are as follows:

1. Applicants for admission must be at least eighteen years of age. (While it is advisable that students shall have one or two years practical training in a drugstore before entering the College, this is not compulsory.)

2. Applicants will be accepted who bring any of the following credentials:—

(a) Certificates of graduation from High Schools of this State.

(b) Diplomas of graduation from schools or academies accredited by the State University. (See Register of the University of California, 1894, page 39.)

(c) Certificates of high standing in other institutions of the collegiate grade.

(d) Diplomas from Normal Schools of this State.

(e) First grade teachers' certificates of this State.

(f) Certificates of having completed satisfactorily the first year's course in High Schools of this State.

3. Applicants who do not present any of the foregoing credentials will be examined in the following branches:—

(a) English.—They will be required to show their ability in spelling, punctuating, use of capitals, grammatical construction, and correctness of expression. (The handwriting will be estimated, and form a part of this examination.)

(b) Geography.—American and General.

(c) Free-hand Drawing.

(d) Mathematics.—Arithmetic: Fundamental rules; fractions, common and decimal; denominate numbers; percentage; proportion.

(e) Algebra: Fundamental rules; fractions; equations of the first degree, consisting of two or more unknown quantities.

(f) Latin: Rudiments; declensions of nouns, pronouns, adjectives; conjugations of verbs; translation of simple sentences from Latin to English, and English to Latin.

Applicants who fail to obtain the required percentage in free-hand drawing and Latin may be entered conditionally, but will be required to pass the examination satisfactorily in these studies at the close of the Junior Lecture Course.

The curriculum consists of two courses, of six months each, from April to October in each year.

Lectures and Demonstrations are delivered in Chemistry, Botany, Materia Medica, Microscopy, and Pharmacy. The Laboratories are under charge of Professors Green, Calvert, Agenti and assistants.

In every respect, this College keeps abreast of the leading Colleges of Pharmacy in the country, adopting the most approved methods of teaching, and keeping pace with the rapid advances of pharmaceutical science.

---

For prospectus, terms, and further information, address

W. M. SEARBY,

*Dean of the Faculty,*

400 Sutter Street, San Francisco.

SAN FRANCISCO POLYCLINIC:  
POST-GRADUATE MEDICAL DEPARTMENT OF THE  
UNIVERSITY OF CALIFORNIA.

A SCHOOL OF CLINICAL MEDICINE FOR GRADUATES OF COLLEGES  
OF REGULAR MEDICINE.

MARTIN KELLOGG, A.M., LL.D., President of the University.

LOUIS BAZET, M.D., Professor of Genito-Urinary Surgery.  
FRED W. D'EVELYN, M.B., C.M. (Edin.), Professor of Pediatrics.  
C. A. VON HOFFMANN, M.D., Professor of Gynecology and Obstetrics.  
HENRY KREUTZMANN, M.D., Professor of Gynecology and Obstetrics.  
DOUGLASS W. MONTGOMERY, M.D., Professor of Venereal Diseases and Dermatology.  
MARTIN REGENSBURGER, M.D., Professor of Venereal Diseases and Dermatology.  
GEORGE F. SHIELS, M.D., C.M. (Edin.), F.R.C.S.E., Professor of Surgery.  
HENRY L. WAGNER, M.D., Ph.D., Professor of Rhinology and Laryngology.  
W. E. HOPKINS, M.D., Professor of Ophthalmology.  
W. A. MARTIN, M.D., Professor of Ophthalmology.  
LUKE ROBINSON, M.D., M.R.C.P. (Lond.), Professor of Gynecology.  
W. H. MAYS, M.D., Professor of Gynecology.  
LEO NEWMARK, M.D., Professor of Neurology.  
WASHINGTON DODGE, M.D., Professor of Medicine.  
BEVERLY MACMONAGLE, M.D., Professor of Gynecology.

Instruction is entirely by clinical lectures, which cover the whole of Medicine and Surgery. The work is divided into five classes:

**Medical Class.**—General Internal Medicine, Pediatrics, Neurology.

**Surgical Class.**—General Surgery, Genito-Urinary Surgery, Orthopedic Surgery.

**Ophthalmic Class.**—Ophthalmology, Otology, Rhinology, Laryngology.

**Gynecological Class.**—Gynecology and Obstetrics.

**Dermatological Class.**—Dermatology and Venereal Diseases.

There is an ample supply of clinical material from the large number of cases attending the free clinics of the Polyclinic. Clinics are also held at the following hospitals: St. Mary's Hospital, in Gynecology; City and County Hospital, in Surgery, Genito-Urinary Surgery, Gynecology and Ophthalmology; the Children's Hospital, in Ophthalmology; St. Luke's Hospital, in Gynecology.

Tickets are sold for six weeks' courses in any of the classes. These courses may begin at any time.

**Bacteriology.**—The laboratory is now open to students.

Special arrangements may be made for courses in operation and technical work in any of the classes to meet the needs of students.

**New Building.**—The Polyclinic now occupies its own building, designed especially for its work. It contains a large lecture-room, seven clinic-rooms, drugstore, waiting-rooms, reading-rooms, and a Laboratory completely equipped for Bacteriological Studies.

For more specific information, address

SECRETARY SAN FRANCISCO POLYCLINIC,  
410 ELLIS STREET, SAN FRANCISCO.



# UNIVERSITY OF CALIFORNIA.

## VETERINARY DEPARTMENT.

---

### FACULTY.

- W. F. EGAN, M.R.C.V.S., Professor of Principles and Practice of Veterinary Surgery and Equine Medicine.
- F. A. NIEF, B.Sc., D.V.S., Professor of Comparative Anatomy.
- A. AUCHIE CUNNINGHAM, F.C.S., F.I. Inst., etc., Professor of Chemistry, Materia Medica, and Toxicology.
- S. J. FRASER, B.A., M.D., Professor of Physiology and Histology.
- FRANK W. SKAIFE, D.V.S., M.R.C.V.S., Professor of Helminthology, Canine Medicine and Surgery, and Dermatology.
- K. O. STEERS, V.S., Professor of Therapeutics and Botany.
- THOMAS MACLAY, M.R.C.V.S., Professor of Bovine Medicine and Obstetrics, and Veterinary Sanitary Science.
- HENRY B. A. KUGELER, M.D., Lecturer on Pathology and Bacteriology.

---

### Special Lecturers.

- PROF. W. F. McNUTT, M.D., L.R.C.S., L.R.C.P. (Edin.), Professor of the Principles and Practice of Medicine, University of California.
- PROF. WILLIAM WATT KERR, M.A., M.D. (Edin.), Professor of Clinical Medicine, University of California.
- PROF. JOSEPH LE CONTE, A.M., M.D., LL.D., Professor of Geology and Natural History, University of California.
- PROF. W. RITTER, M.A., Assistant Professor of Biology, University of California.

### DEAN.

F. W. SKAIFE, D.V.S., M.R.C.V.S., 18 Cedar Avenue.

### SECRETARY.

A. A. CUNNINGHAM, F.C.S., F.I. Inst., 229 Geary Street.

### HOUSE SURGEONS.

W. F. EGAN, M.R.C.V.S., Horses, Cattle, etc.  
F. W. SKAIFE, D.V.S., M.R.C.V.S., Dogs, etc.

---

### COURSE OF STUDY.

The curriculum of this College comprises the fundamental sciences, and covers a period of three winter sessions, of over six months each, commencing on the first day of October of each year, and extending to



the end of March of the following year. The theoretical instruction will be by didactic lectures, class demonstrations and recitations. The facilities for instruction are equal to any in this country, and the courses extend from the first elements of Medicine to the latest researches in Veterinary Science at home and abroad. The student will be trained under the special guidance of Professors in all the practical and technical details of the profession. The following are the studies:—

*First Year*—Chemistry and Materia Medica.

Elements of Physiology and Histology.

Anatomy.

Dissection.

Botany.

*Second Year*—Physiology and Comparative Physiology.

Anatomy of the Domesticated Animals and Comparative Anatomy.

Principles and Practice of Veterinary Surgery.

Principles and Practice of Equine Medicine.

Principles and Practice of Bovine Medicine.

Materia Medica.

Analytical and Organic Chemistry.

Toxicology.

Dissection.

Clinical Instruction.

Therapeutics.

*Third Year*—Principles and Practice of Veterinary Surgery.

Principles and Practice of Equine Medicine and Dermatology.

Principles and Practice of Bovine Medicine.

Principles and Practice of Canine Medicine and Helminthology.

Veterinary Obstetrics.

Bacteriology.

Pathological Anatomy.

Veterinary Hygiene.

Clinical Instruction.

Therapeutics.

Lectures on special subjects will be delivered from time to time throughout the session.

The second and third year students, besides attending the clinics, must serve as aids in the Hospital, and the third year they will be placed in charge of sick animals, and required to make autopsies.

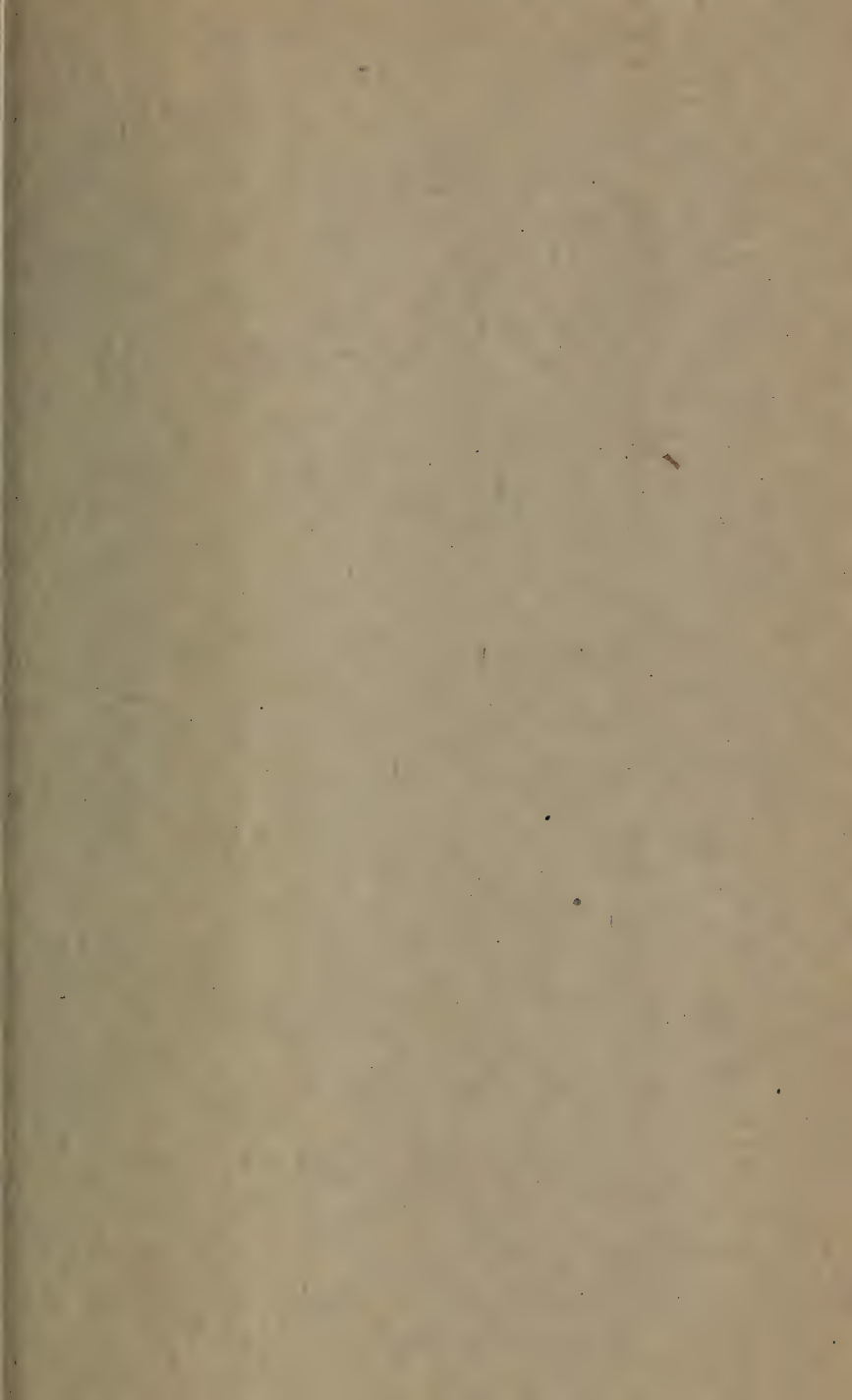
For prospectus, terms, and further information, address

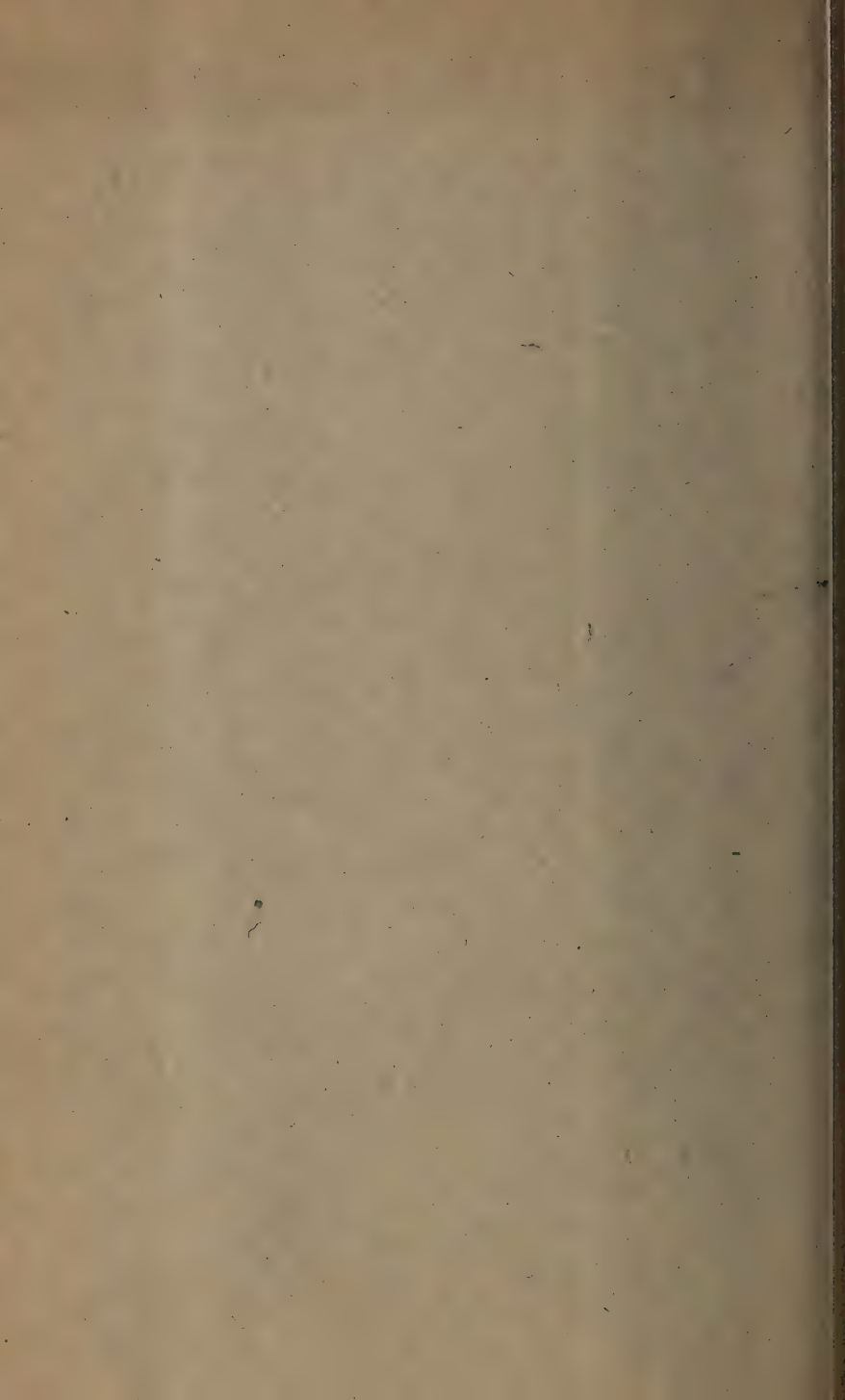
F. W. SKAIFE, Dean,

18 Cedar Avenue.

THE LIBRARY OF THE

FEB 26 1931





2uZd  
97/98

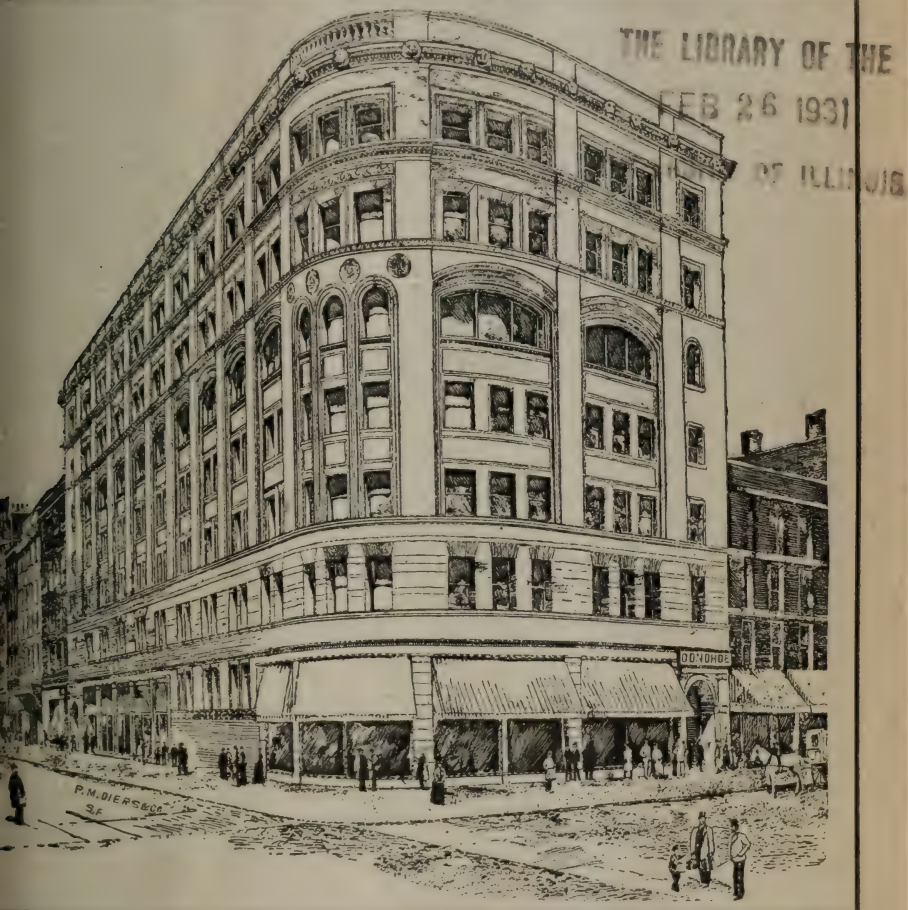
University of California  
LIBRARY

✓

# COLLEGE OF DENTISTRY

OF THE

UNIVERSITY OF CALIFORNIA



COR. MARKET AND TAYLOR STREETS

## SIXTEENTH SESSION

Commencing Monday, Sept. 6, 1897, and Ending May 31, 1898

## CALENDAR FOR 1897-98.

---

Monday and Tuesday, August 23d and 24th	}	First Preliminary Examination
Wednesday, September 1st	}	Examination for Conditions
Saturday, September 4th		
Monday, September 6th		Beginning of Term
Thursday, September 9th		Holiday (Admission Day)
Saturday, October 2d		Second Preliminary Examination
Thursday, November 25th	}	Thanksgiving Recess
Saturday, November 27th		
Saturday, December 4th (9 A. M.)		Examination for Entrance Conditions
Monday, December 20th	}	Christmas Vacation (three weeks)
Saturday, January 8th		
Tuesday, February 22d, 1898		Holiday (Washington's Birthday)
Wednesday, March 23d		Charter Day (University of California)
April 1st to April 30th		Senior Examination in Infirmary
May 2d to May 7th		Senior Examinations
May 23d to May 28		Junior and Freshman Examinations
May 31st		End of Term
Wednesday, June 2d		Commencement
June 1st to September 1st	{	Practical Course for Junior and Freshman Students



# ANNOUNCEMENT

OF THE

# COLLEGE OF DENTISTRY

THE LIBRARY OF THE

FEB 26 1901

OF THE

UNIVERSITY OF ILLINOIS.

## UNIVERSITY OF CALIFORNIA

FOR ITS

### SIXTEENTH SESSION

COMMENCING SEPTEMBER 6, 1897, AND ENDING MAY 31, 1898.

*N. B.—Those who wish to receive the Announcement are requested to forward their  
Names and Addresses to the Dean.*

---

SAN FRANCISCO

C. A. MURDOCK & Co., PRINTERS

1897

# UNIVERSITY OF CALIFORNIA.

---

## OFFICE DIRECTORY.

---

### IN BERKELEY.

The office of the PRESIDENT is Room No. 20, *North Hall*.

The office of the RECORDER is Room No. 10, *North Hall*.

The office of the SECRETARY and office of the BOARD OF REGENTS is in *South Hall*.

The office of the LAND AGENT is in *South Hall*.

---

### AT MT. HAMILTON.

The address of the DIRECTOR OF THE LICK OBSERVATORY is Lick Observatory, Mt. Hamilton, Santa Clara County, California.

---

### IN SAN FRANCISCO.

The office of the REGISTRAR OF THE COLLEGE OF LAW is No. 230 Montgomery Street, Room 15.

Lectures in the COLLEGE OF LAW are delivered in the Assembly Room of the Society of Pioneers, No. 808 Montgomery Street.

The office of the DEAN OF THE MEDICAL FACULTY is No. 305 Kearny Street.

The COLLEGE OF MEDICINE is situated on Stockton Street, between Chestnut and Francisco, in Toland Hall.

The Medical and Surgical Clinics of the COLLEGE OF MEDICINE are held at the City and County Hospital, Twenty-second Street and Potrero Avenue.

The Dispensary Clinics of the COLLEGE OF MEDICINE are held at 155 New Montgomery Street.

The office of the DEAN OF THE DENTAL FACULTY is No. 606 Sutter Street.

Lectures in the COLLEGE OF DENTISTRY are delivered in the College Building, No. 18 Taylor Street, corner of Market.

The office of the DEAN OF THE COLLEGE OF PHARMACY is No. 400 Sutter Street.

The COLLEGE OF PHARMACY is situated at No. 113 Fulton Street, between Polk Street and Van Ness Avenue.

The Veterinary Department is situated at the corner of Post and Fillmore Streets. Office of the Dean, 18 Cedar Avenue.

The office of the BOARD OF REGENTS is in the Hopkins Art Building, corner of Mason and California Streets.

The office of the TREASURER OF THE BOARD OF REGENTS is No. 310 Sansome Street.

# UNIVERSITY OF CALIFORNIA.

## BOARD OF REGENTS.

### EX-OFFICIO REGENTS.

HIS EXCELLENCY JAMES H. BUDD . . . . .	Sacramento
<i>Governor, ex-officio President of the Board.</i>	
HIS HONOR WILLIAM T. JETER . . . . .	Santa Cruz
<i>Lieutenant-Governor.</i>	
HON. F. L. COOMBS . . . . .	Napa
<i>Speaker of the Assembly.</i>	
HON. SAMUEL T. BLACK . . . . .	Sacramento
<i>State Superintendent of Public Instruction.</i>	
HON. CHAS. M. CHASE . . . . .	San Francisco
<i>President of the State Agricultural Society.</i>	
E. A. DENICKE, Esq. . . . .	San Francisco
<i>President of the Mechanics' Institute.</i>	
MARTIN KELLOGG, A.M., LL.D. . . . .	Berkeley
<i>President of the University.</i>	

### APPOINTED REGENTS.\*

NAME.	ADDRESS.	TERM EXPIRES.
CHARLES W. SLACK . . . . .	New City Hall, S. F. . . . .	1910
HON. J. WEST MARTIN . . . . .	Union Savings Bank, Oakland . . . . .	1898
ANDREW S. HALLIDIE, ESQ. . . . .	8 Pine St., S. F. . . . .	1908
HON. WILLIAM T. WALLACE . . . . .	799 Van Ness Ave., S. F. . . . .	1902
JAMES A. WAYMIRE . . . . .	Alameda . . . . .	1908
J. F. HOUGHTON, ESQ. . . . .	223 Mission St., S. F. . . . .	1904
HON. TIMOTHY GUY PHELPS . . . . .	San Carlos . . . . .	1912
ISAIAS WILLIAM HELLMAN, ESQ. . . . .	Nevada Bank, S. F. . . . .	1902
GEORGE THOMAS MARVE, JR., LL. B. . . . .	234 Montgomery St., S. F. . . . .	1898
ARTHUR RODGERS, B.S., LL. B. . . . .	309 Montgomery St., S. F. . . . .	1906
HON. HENRY S. FOOTE . . . . .	U.S. Appraisers Bldg, S. F. . . . .	1900
ALBERT MILLER, ESQ. . . . .	532 California St., S. F. . . . .	1906
CHARLES FREDERICK CROCKER, ESQ. . . . .	Union Trust Co. Building, S. F. . . . .	1904
CHESTER ROWELL, M.D. . . . .	Fresno . . . . .	1910
JACOB BERT REINSTEIN, A.M. . . . .	217 Sansome St. S. F. . . . .	1912
JOHN E. BUDD . . . . .	Stockton . . . . .	1900
E. W. DAVIS, B.L., Secretary . . Berkeley.		

Regular meetings of the Board of Regents are held thirteen times a year, viz. In San Francisco, on the second Tuesday in each month; in Berkeley, on the day preceding Commencement in the College of Letters and the Colleges of Science.

\* In the order of original appointment.

# UNIVERSITY OF CALIFORNIA.

---

## COLLEGE OF DENTISTRY.

---

DONOHUE BUILDING, CORNER OF MARKET AND TAYLOR STREETS,  
SAN FRANCISCO.

---

### FACULTY.

- MARTIN KELLOGG, A.M., LL.D., President of the University, and  
*ex-officio* President of the Faculty.  
JOSEPH LE CONTE, M.D., LL.D., Honorary Professor of Biology.  
W. E. TAYLOR, M.D., Emeritus Professor of Surgery.  
C. L. GODDARD, A.M., D.D.S., Professor of Orthodontia.  
L. L. DUNBAR, D.D.S., Dean, and Professor of Operative Dentistry.  
MAURICE J. SULLIVAN, D.D.S., Professor of Dental Pathology,  
Therapeutics, and Materia Medica.  
WILLIAM B. LEWITT, M.D., Professor of the Principles and Practice  
of Surgery.  
A. L. LENGFELD, M.D., Professor of Chemistry and Metallurgy.  
A. A. D'ANCONA, A.B., M.D., Professor of Physiology and Histology.  
J. M. WILLIAMSON, M.D., Professor of Anatomy.
- 

### LECTURERS, DEMONSTRATORS, AND ASSISTANTS.

- W. F. SHARP, D.D.S., D.M.D., Lecturer on Mechanical Dentistry.  
H. R. WILEY, A.B., LL.B., Lecturer on Dental Jurisprudence.  
CHARLES A. LITTON, D.D.S., Superintendent of Infirmary.  
M. J. SULLIVAN, D.D.S., Instructor in Clinical Operative Dentistry.  
HARRY P. CARLTON, D.D.S., Instructor in Operative Technic.  
H. D. NOBLE, D.D.S., Demonstrator of Operative Dentistry.  
WALTER I. WILCOX, D.D.S., Instructor in Clinical Mechanical  
Dentistry.  
CHAS. P. HAUSELT, D.D.S., Demonstrator of Mechanical Dentistry.  
JAMES W. LIKENS, D.D.S., Demonstrator of Operative Dentistry.  
S. P. TUGGLE, M.D., Demonstrator of Anatomy.  
S. J. FRASER, A.B., M.D., Assistant Demonstrator of Anatomy.  
EDWIN BUNNELL, A.B., M.D., Junior Assistant of Anatomy.  
J. D. HODGEN, D.D.S., Assistant in Chemistry and Metallurgy.  
H. D. NOBLE, D.D.S., Demonstrator of Orthodontia Technic.  
JAMES G. SHARP, D.D.S., M.D., Assistant to the Chair of Physiology  
and Histology.

## ❧ SIXTEENTH SESSION ❧

1897 - 1898

THE COLLEGE OF DENTISTRY OF THE UNIVERSITY OF CALIFORNIA begins its Sixteenth Session on Monday, September 6, 1897, with increased facilities in every department and under conditions more favorable than heretofore for a systematic training of students for the practice of dentistry in accordance with modern requirements. It easily stands in the front rank of technical schools, ever maintaining the standard for which its founders have striven, and has in no respect catered to that commercialism so prevalent in dental educational institutions, which has done more than anything else to degrade the profession, both at home and abroad.

It is a matter for congratulation that its graduates take rank with the foremost wherever they go, both in professional training and general culture, and its diploma is accorded recognition by Boards of Registration in every State of the Union as well as in most foreign countries.

The increased requirements of last term were met by a large attendance of thoroughly well-equipped matriculates of both sexes, most of whom were exempt from the entrance examination at its advanced standard.

The College at present occupies the entire upper floor and part of another in one of the largest buildings in the city, which, with its arrangement of rooms and general equipment, secures all that could be desired in any first-class dental college.

We present on the preceding page a perspective view of the new buildings now being erected by the State of California for the professional Colleges of the University, the corner-stone of which was laid Saturday, March 27, 1897, with imposing ceremonies. The munificence of the State in its appropriation of \$250,000 for the construction of buildings was aided by the generosity of the Hon. Adolph Sutro, who gave to the University a fraction over twenty-six acres of land beautifully situated south of Golden Gate Park, and commanding a view of the city



and vicinity, unsurpassed by any site elsewhere. Upon the westerly half of the property is being constructed this magnificent group of buildings, and upon the remainder, or eastern portion, will be erected the Sutro Library, also destined to become a part of the University.

This marks an era of University extension unequaled in the history of this favored State, and will secure to it a complete University. The desideratum in the professional schools now is the proper endowment of its special chairs by public-spirited citizens, so that the more important of these may be filled by the best instructors in their several specialties that can be obtained,—men of ripe scholarship and experience, untrammelled by the cares of active practice, who, by the aid of such endowment, may have opportunity for independent investigation and work, for the glory of the University and State. When this is accomplished, the *greater University* will be an established fact, and those who have passed lives of toil and self-denial as teachers and practitioners, often giving much of the financial results of practice in aid of their ideal, will not have labored in vain.

It is not improbable that the session of 1898-1899 will see the professional departments in full operation in their new home, all under the direction of the Board of Regents, and under conditions that will offer a course of instruction in the College of Dentistry that will challenge comparison anywhere.

In our present situation we have added very much to our course of manual training, and in recognition of the value of operative technic, as well as prosthetic technic, we have enlarged the Freshman curriculum in these departments, so as to furnish each student with graded instruction in practical manipulations under the eye of competent assistants, who are with them daily, and occupy all their time not taken up with lectures. The value of this plan cannot be estimated both for instruction and discipline.

Under the new arrangement, the Infirmary is separated entirely from the lecture and class rooms, so that students only come into contact with patients under direct assignment by the Superintendent. Elevators are provided for the exclusive use of each, that for patients of the Infirmary being on Market Street, and for students at the Taylor Street entrance to the building.

The College building is admirably situated for convenient

access, occupying a prominent corner upon the main thoroughfare of the city, contiguous to all lines of cars, direct or by transfer.

The supply of clinic material is very abundant, and during some seasons more than can be served. To the thirty chairs already in use we have added twenty-six more, making fifty-six in all, with accessory cabinets, brackets, etc.

A commodious Senior operating room is also provided for advanced students, in addition to the large operating rooms heretofore in use.

The dental laboratories are on the same floor, and consist of two—one for elementary instruction in Mechanical Technic, and the other for advanced students. These are thoroughly equipped with individual benches, provided with lockers, as well as the latest improved appliances for all kinds of prosthetic work.

Crown and bridge work is a prominent feature of the instruction in the Junior year, followed by advanced work in porcelain construction in the Senior year.

Orthodontia, both didactic and practical, including a course in Orthodontia Technics, is an important part of the curriculum, receiving the entire attention of a specialist in this branch of practice.

The course in Histology will be supplemented by a full laboratory course in Histology and practical work with the microscope. A course in Bacteriology will also be given, covering a period of from six to ten weeks for Junior students. Special attention will be given to Section Cutting—both of hard and soft tissues. A suitable room is provided for this purpose, equipped with all the requisites for instruction, including fifteen superior microscopes.

The building is provided with abundant means of egress, in two wide stairways, two elevators, and two outside fire escapes on each side.

All the lectures of the Department will be delivered in the College lecture room, but the work in Practical Anatomy will be performed under the superintendence of the Demonstrator of Anatomy, at the College of Medicine, Stockton Street, between Chestnut and Francisco, where a commodious dissecting room is especially provided for dental students, equipped with six glass-top tables, where thirty students may be accommodated at one time.

The undergraduate departments of the University are clustered at Berkeley, while the professional colleges are, for convenience of clinical study, conducted wholly in San Francisco.

There are seven professors in the college, besides a corps of able and efficient special lecturers and demonstrators. The professors will lecture each week, according to schedule of instruction published in this announcement. Wednesday afternoon of each week will be set apart, as heretofore, for clinical instruction. The staff of clinical instructors is a large one and will be in charge of a Master of Clinics, who will arrange instructive services for each month during the term. It will also be the aim of the Faculty to supply the Freshman class with a more comprehensive course of technics than has ever been given in a dental school, supplemented by clinics by visiting dentists whenever possible.

The dental laboratories are furnished with benches, lathes, furnaces for melting, forge, rolling mill, continuous gum furnaces, and all other requisites for thorough work. Each student is required to furnish his own instruments and tools, and will be provided with a separate drawer, in which they can be securely locked. Those who have instruments and laboratory tools and appliances should bring them; those who have not, are advised to defer purchasing until they arrive. Lists of instruments and appliances requisite are designated elsewhere, copies of which will be furnished by the Superintendent. During the hours devoted to Operative or Mechanical Dentistry, competent demonstrators will be present to assist the students in their operations. The Superintendent of the Infirmary will receive and assign patients to students, and will have general supervision of the Infirmary.

As per resolution of the National Association of Dental Faculties, this College requires an attendance upon three full regular courses in separate years before graduation.

This College also endorses the requirements of the National Association of Dental Examiners, and has pledged itself to maintain the standard established.

## SCHEDULE OF STUDY.

*Session of 1897-98—Term commences September 6, 1897, and  
closes May 31, 1898.*

### Order of Lectures and Clinics.

#### FRESHMAN YEAR.

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.
9 A.M. to 11 A.M.	LABORATORY.		LABORATORY.		
10 A.M. to 11 A.M.		LABORATORY.		Microscopic Technic, Prof. D'ANCONA	LECTURE, Physiology, Prof. D'ANCONA.
11 A.M. to 12 M.	LECTURE, Anatomy, Prof. WILLIAMSON	LECTURE, Osteology, Dr. FRASER.	LECTURE, Physiology, Prof. D'ANCONA	Prof. D'ANCONA	LECTURE, Chemistry, Prof. LENGFELD.
9 A.M. to 5 P.M.	TECHNIC, Dr. WESTPHAL.	TECHNIC, Dr. GRAHAM.	TECHNIC, Dr. PORTER.	TECHNIC, Dr. GREENBAUM.	TECHNIC, Dr. STICH.
1 P.M. to 2 P.M.		Operative Technic, Dr. CARLTON.	LABORATORY.	Operative Technic, Dr. CARLTON.	LABORATORY.
2 P.M. to 4 P.M.	LABORATORY.	CHEMICAL LABORATORY, Dr. HODGEN.		LABORATORY.	
4 P.M. to 5 P.M.	LECTURE, Mechanical Dentistry, Dr. W. F. SHARP.				
SATURDAY, 9 A.M. TO 12 M.					
LABORATORY CLINICS OR SURGICAL CLINICS AT CITY AND COUNTY HOSPITAL.					



# ORDER OF LECTURES AND CLINICS—Continued.

## JUNIOR YEAR.

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.
9 A.M. to 10 A.M.	CLINIC.	CLINIC.	CLINIC.	LECTURE, Mechanical Dentistry, Dr. W. F. SHARP	LECTURE, Operative Dentistry, Prof. DUNBAR.
10 A.M. to 11 A.M.				LECTURE, Anatomy, Prof. WILLIAMSON.	LECTURE, Physiology, Prof. D'ANCONA.
11 A.M. to 12 M.	LECTURE, Anatomy, Prof. WILLIAMSON		LECTURE. Physiology, Prof. D'ANCONA	LECTURE, Chemistry, Prof. LENGFELD	LECTURE, Chemistry, Prof. LENGFELD.
9 A.M. to 1 P.M.	DEMONSTRATORS. Dr. SULLIVAN. Dr. WILCOX. Dr. LIKENS.	DEMONSTRATORS. Dr. SULLIVAN. Dr. WILCOX. Dr. LIKENS.	DEMONSTRATORS. Dr. NOBLE. Dr. WILCOX. Dr. LIKENS.	DEMONSTRATORS. Dr. SULLIVAN. Dr. WILCOX. Dr. LIKENS.	DEMONSTRATORS. Dr. SULLIVAN. Dr. WILCOX. Dr. LIKENS.
1 P.M. to 5 P.M.	Dr. HAUSELT. Dr. NOBLE	Dr. HAUSELT. Dr. NOBLE.	Dr. SULLIVAN. Dr. HAUSELT.	Dr. HAUSELT. Dr. NOBLE.	Dr. HAUSELT. Dr. NOBLE.
1 P.M. to 2 P.M.	LECTURE, Dental Histology Dr. J. G. SHARP.		CLINICAL INSTRUCTORS. 1 to 3:30 P.M.  3:30 to 4:30. LECTURE, Orthodontia, Prof. GODDARD.		
2 P.M. to 3 P.M.	CLINIC.	LECTURE, Chemistry, Dr. HODGEN.		CLINIC.	CLINIC.
3 P.M. to 4 P.M.		CLINIC.			
4 P.M. to 5 P.M.		LECTURE, Pathology and Therapeutics, Prof. SULLIVAN		LECTURE, Materia Medica, Prof. SULLIVAN	Orthodontic Technic, Dr. NOBLE.
5 P.M. to 6 P.M.		DISSECTING.			
SATURDAY, 9 A.M. TO 12 M.					
OPERATIVE CLINICS AND HOSPITAL CLINICS IN SURGERY.					



ORDER OF LECTURES AND CLINICS.—*Continued.*

SENIOR YEAR.

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.
9 A.M. TO 10 A.M.	LECTURE, Operative Den- tistry, Prof. DUNBAR.	LECTURE, Mechanical Dentistry, Dr. W. F. SHARP	CLINIC.	CLINIC.	CLINIC.
10 A.M. TO 12 M.	CLINIC.	CLINIC.			
9 A.M. to 1 P.M.	DEMONSTRATORS. Dr. SULLIVAN. Dr. WILCOX. Dr. LIKENS.	DEMONSTRATORS. Dr. SULLIVAN. Dr. WILCOX. Dr. LIKENS.	DEMONSTRATORS. Dr. NOBLE. Dr. WILCOX. Dr. LIKENS.	DEMONSTRATORS. Dr. SULLIVAN. Dr. WILCOX. Dr. LIKENS.	DEMONSTRATORS. Dr. SULLIVAN. Dr. WILCOX. Dr. LIKENS.
1 P.M. to 5 P.M.	Dr. HAUSELT. Dr. NOBLE.	Dr. HAUSELT. Dr. NOBLE.	Dr. SULLIVAN. Dr. HAUSELT.	Dr. HAUSELT. Dr. NOBLE.	Dr. HAUSELT. Dr. NOBLE.
1 P.M. TO 2 P.M.	LECTURE, Dental Histology Dr. J. G. SHARP.	CLINIC.	CLINIC INSTRUCTORS, 1 to 3:30.	CLINIC.	LECTURE, Metallurgy, Dr. HODGEN.
2 P.M. TO 4 P.M.	Practical Metallurgy, Division A, Dr. HODGEN.		LECTURE, Orthodontia, Prof. GODDARD.		
4 P.M. TO 5 P.M.		LECTURE, Pathology and Therapeutics, Prof. SULLIVAN.	3:30 to 4:30.  CLINIC, Orthodontia, Prof. GODDARD.	LECTURE, Materia Medica, Prof. SULLIVAN	Practical Metallurgy, Division B, Dr. HODGEN.
5 P.M. TO 6 P.M.		QUIZ, Surgery, Prof. LEWITT.		LECTURE, Surgery, Prof. LEWITT.	
SATURDAY, FROM 9 A. M. TO 12 M. OPERATIVE CLINICS AND HOSPITAL CLINICS IN SURGERY.					

Surgical Clinics will be held during the term by Prof. W. B. Lewitt whenever opportunity offers.

## REQUIREMENTS FOR ADMISSION.

Every candidate for admission must be eighteen years of age, must present to the Faculty satisfactory evidence of a good moral character, and must be examined as to his previous education and fitness to appreciate the technical study of Dentistry.

In order to secure a release from this examination, the candidate must present his diploma or certificate of examination or graduation.

Graduates and Undergraduates of Medicine desiring to qualify themselves for the practice of Dentistry will be governed by the following rules of the National Association of Dental Faculties:—

*Resolved*, That after the Session of 1890-91 a diploma from a reputable Medical College shall entitle its holder to enter the second course in Dental Colleges of this Association, but he may be excused from attendance upon lectures and examinations upon the following subjects: General Anatomy, Chemistry, Physiology, Materia Medica, and Therapeutics. (Excelsior, 1890.)

*Resolved*, That the candidates for admission to the Colleges of this Association who are Undergraduates in a reputable Medical College may be admitted to the Junior Class, subject to the rules of examination governing admission to that class. (Saratoga, 1891.)

Candidates for admission to advanced standing will be governed by the following rules:—

*Resolved*, That the Colleges of this Association may receive into the Junior or Senior Classes only such students as hold certificates of having passed a satisfactory examination in the studies of the Freshman or Junior years, respectively; this certificate is to be a pledge to any College to which they may apply that a previous year has been properly spent in the institution from whence they come. (Chicago, 1885; changed Saratoga, 1891.)

*Resolved*, That applicants for admission to advanced standing from foreign countries shall be required to furnish properly attested evidence of study, attendance upon lectures, etc., the same as required of applicants here, and they shall pass the intermediate examinations. (Chicago, 1885; changed, Saratoga, 1891.)

In accordance with the foregoing, this College will admit students to advanced standing who hold certificates from colleges belonging to the National Association of Faculties that exact a like standard of entrance requirement and curriculum.

Beginning with the Sixteenth Session (September 6, 1897), this College will adopt the following rules governing admissions, viz.—

## MATRICULATION EXAMINATION.

Students desiring to matriculate are required to undergo examination for admission in the following subjects:—

1. *English.* This examination will presuppose a study of English and American literature equal to that pursued in the first year of a high school course. Every candidate will be required also to write an English composition of not less than two hundred words, correct in spelling, punctuation, capital letters, grammar and paragraphing.

2. *Physics.* An amount represented by Avery's Natural Philosophy, or Gage's Introduction to Physical Science.

3. *Latin.* Refer to Smith's Principia Latina, Part I., or an equivalent.

4. *Elective Subjects.* (a) For the Session of 1897-1898, according to the announcement, each candidate must also pass an examination in *two* of the following subjects: Chemistry, French, German, Elements of Algebra, Plane Geometry, Botany, or Zoölogy.

(b) For the Session of 1898-1899, and thereafter, the elective list includes many more subjects (see page 16), and each applicant must pass an examination, as follows, in addition to the required subjects.

For the Sessions of 1898-1899 and 1899-1900, in three required and four electives.

For the Session of 1900-1901, in three required and six electives.

For the Session of 1901-1902, and thereafter in three required and nine electives.

At least one year's work should be spent on each of these branches before examination. Conditions imposed at the entrance examinations must be removed before the end of the session.

Applicants intending to take this examination are advised to review their studies before doing so.

In lieu of an examination, the following certificate will be accepted from any of the schools accredited by the University of California at Berkeley.

This certificate is the one adopted in August, 1896, by the National Association of Dental Faculties, slightly modified to suit the advanced requirements of this College.

## CERTIFICATE OF STUDY.

..... HIGH SCHOOL.

..... 189..

To the Faculty of the College of Dentistry,  
University of California.

M..... desires to present....  
self as a candidate for admission to the Course of Dentistry.

He has successfully completed in this school the branches  
after which numbers are marked — the numbers being the stand-  
ings upon a scale of 100.

The table assumes that each student takes one or more studies  
each day for five days each week. The term “count” represents  
ten week’s work in one of these studies. The figure prefixed to  
each subject shows how many counts are allowed that subject.

Four counts represent one year’s work.

### REQUIRED.

- 4 English.....
- 4 Latin 1st year .....
- 4 Physics.....

—  
12 counts are given for the same.

### ELECTIVE.

#### GROUP I.

#### *Ancient.*

#### LANGUAGE AND LITERATURE.

##### *English.*

- 2 Advanced English . . . . .
- 2 Rhetoric . . . . .
- 1 German classics in English . .
- 1 French classics in English . .
- 1 Latin classics in English . . .
- 1 Greek classics in English . . .

##### *Modern Foreign.*

- 4 German, 1st year . . . . .
- 4 German, 2d year . . . . .
- 4 German, 3d year . . . . .
- 4 French, 1st year . . . . .
- 4 French, 2d year . . . . .
- 4 French, 3d year . . . . .

- 4 Latin, 2d year . . . . .
- 4 Cæsar’s Commentaries . . . .
- 4 Latin, 3d year . . . . .
- 2 Sallust’s Cataline . . . . .
- 2 Cicero’s Orations . . . . .
- 1 Ovid’s Metamorphoses . . . .
- 4 Virgil’s Æneid . . . . .
- 1 Virgil’s Eclogues . . . . .
- 4 Greek, 1st year . . . . .
- 4 Greek, 2d year . . . . .
- 4 Xenophon’s Anabasis . . . .
- 2 Homer’s Iliad . . . . .
- 4 Greek, 3d year . . . . .

THE LIBRARY  
OF THE  
UNIVERSITY OF ILLINOIS



# CERTIFICATE OF STUDY

.....HIGH SCHOOL

.....189...

To the Faculty of the COLLEGE OF DENTISTRY

UNIVERSITY OF CALIFORNIA

M.....desires to present  
.....self as a candidate for admission to the Course of Dentistry.

He has *satisfactorily* completed in this school the branches against which numbers appear—the numbers indicating the length of time the subject was pursued and the number of recitations per week.

(One credit is given for each full year's study. Fractions printed after a subject indicate the proportion credited for that subject.)

## REQUIRED STUDIES

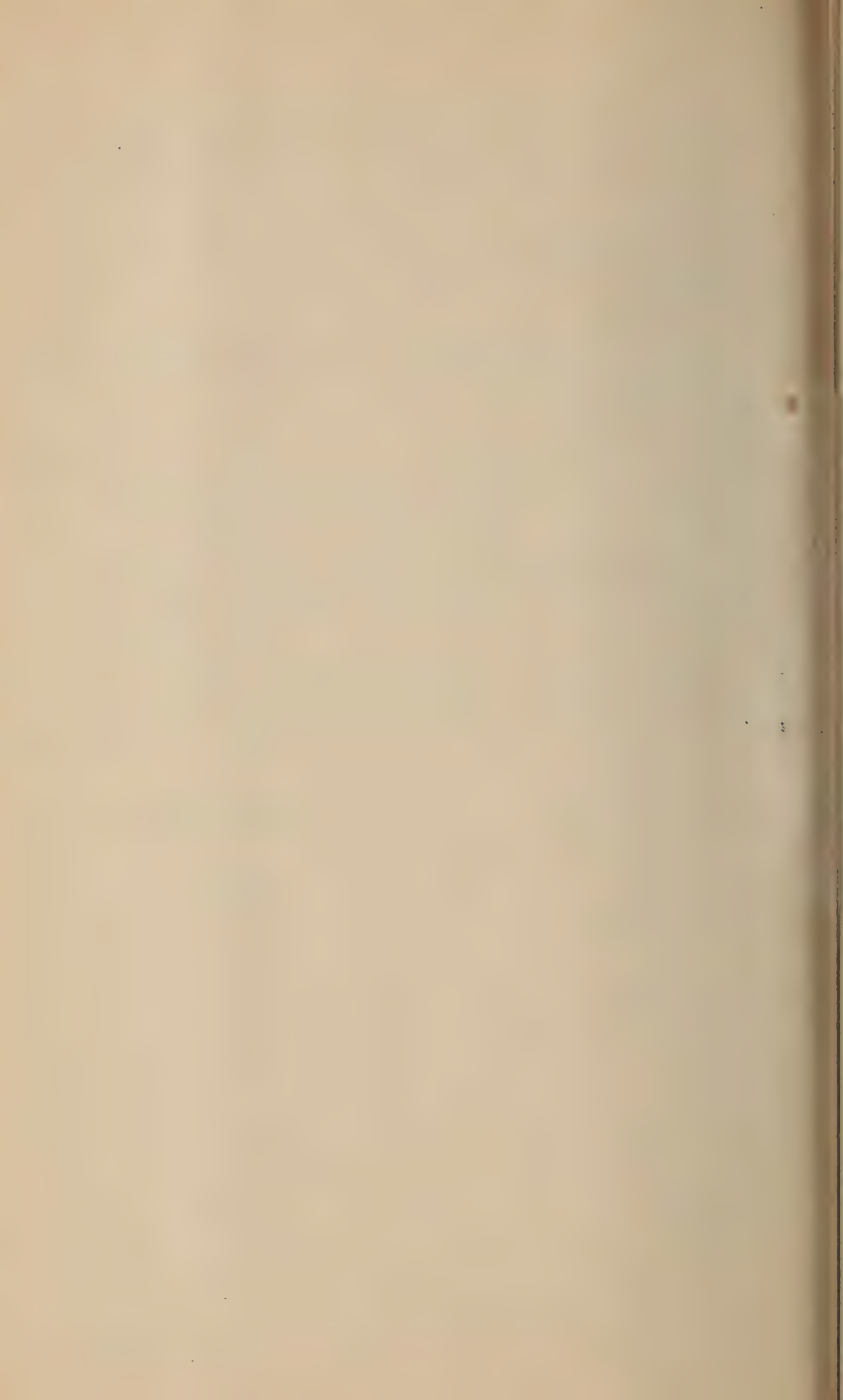
	Years of Study	Recitations Per Week	Credits
English, 1st year.....			
Latin, 1st year.....			
Physics .....			

## ELECTIVE STUDIES

Advanced English.....			
Algebra.....			
Advanced Algebra ( $\frac{1}{2}$ ).....			
Advanced Arithmetic ( $\frac{1}{2}$ ).....			
Plane Geometry.....			
Solid " ( $\frac{1}{2}$ ).....			
Plane Trigonometry ( $\frac{1}{4}$ ).....			
Spheric " ( $\frac{1}{4}$ ).....			
Chemistry.....			
Zoology.....			

# ELECTIVE STUDIES

	Years of Study	Recitations Per Week	Credits
Botany.....			
Physical Geography ( $\frac{1}{2}$ ).....			
Geology ( $\frac{1}{2}$ ).....			
Astronomy.....			
Physiology and Hygiene.....			
U. S. History.....			
General History.....			
Greek " ( $\frac{1}{2}$ ).....			
Roman " ( $\frac{1}{2}$ ).....			
English " ( $\frac{1}{2}$ ).....			
French " ( $\frac{1}{2}$ ).....			
Civil Government.....			
Economics.....			
Rhetoric ( $\frac{1}{2}$ ).....			
Latin, 2d year.....			
" 3d ".....			
French, 1st year.....			
" 2d ".....			
" 3d ".....			
German, 1st year.....			
" 2d ".....			
" 3d ".....			
Greek, 1st year.....			
" 2d ".....			
" 3d ".....			
German Classics in Eng. ( $\frac{1}{4}$ ).....			
French " " " ( $\frac{1}{4}$ ).....			
Latin " " " ( $\frac{1}{4}$ ).....			
Greek " " " ( $\frac{1}{4}$ ).....			
Bookkeeping ( $\frac{1}{2}$ ).....			
Home Science ( $\frac{1}{2}$ ).....			
Drawing.....			
Manual Training.....			



GROUP 2.

MATHEMATICS.

2	Advanced arithmetic . . . . .
4	Algebra . . . . .
2	Advanced algebra . . . . .
4	Plane geometry . . . . .
2	Solid geometry . . . . .
1	Plane trigonometry . . . . .
1	Spheric trigonometry . . . . .

GROUP 3.

SCIENCE.

*Physical.*

2	Astronomy . . . . .
2	Chemistry, part 1 . . . . .
2	Chemistry, part 2 . . . . .

*Geologic.*

2	Physical geography . . . . .
2	Geology . . . . .

*Biologic.*

	Botany . . . . .
	Zoölogy . . . . .
	Physiology and hygiene . . . . .

GROUP 4.

HISTORY AND SOCIAL SCIENCE.

2	U. S. history . . . . .
2	General history . . . . .
1	Greek history . . . . .
1	Roman history . . . . .
2	English history . . . . .
2	French history . . . . .
2	Advanced U. S. history . . . . .
2	First reading course in U. S. history . . . . .
2	Second reading course in U. S. history . . . . .
2	Civics . . . . .
2	Economics . . . . .

GROUP 5.

OTHER STUDIES.

2	Stenography, 50 } words
1	Stenography, 75 } per
1	Stenography, 100 } minute
2	Bookkeeping . . . . .
2	Home science . . . . .
<i>Form-study and Drawing.</i>	
2	Drawing . . . . .
2	Advanced drawing . . . . .
2	Manual training . . . . .
2	Advanced manual training . . . . .

FOR THE SESSION OF 1897-1898.

Required Studies . . . . .	12 counts.
Elective . . . . .	8 counts.
Total . . . . .	20

FOR THE SESSIONS OF 1898-1899, AND 1899-1900.

Required Studies . . . . .	12 counts.
Elective . . . . .	16 counts.
Total . . . . .	28

FOR THE SESSION 1900-1901.

Required Studies . . . . .	12 counts.
Elective . . . . .	24 counts.
Total . . . . .	36

FOR THE SESSION 1901-1902, AND THEREAFTER.

Required Studies . . . . .	12 counts.
Elective . . . . .	36 counts.
Total . . . . .	48

[When the text-book mentioned has not been completed, the exact amount of work done should be stated.]

The candidate above named is recommended as of good moral character, studious habits, and judging from the past records, able to carry forward the work of a dental college course.

..... Principal.

LIST OF ACCREDITED SCHOOLS, 1897.

Students who present certificates like the foregoing, of one year's study in English, Physics, Latin, or any two of the elective subjects from any of the following "accredited schools" will be excused from examination in such subjects.

Alameda Co. Union High School, No. 2, Centerville.	Healdsburg High School.
Alameda Co. Union High School, No. 3, Haywards.	Hoitt's Oak Grove School, Burlin- game.
Alameda High School.	Miss Horton's School, Oakland.
Alameda University Academy.	Irving Institute.
Arcata Union High School.	Kern Co. High School, Bakersfield.
Armijo Union High School, Suisun.	Livermore Union High School.
Arroyo Grande High School.	Lompoc Union High School.
Belmont School.	Los Angeles High School.
Berkeley High School.	Lowell High School, San Francisco.
Berkeley Gymnasium.	Marysville High School.
Boone's University School, Berke- ley.	Mendocino High School.
California School of Mechanical Arts.	Mills Seminary.
Citrus Union High School, Azusa.	Modesto High School.
Colusa High School.	Monrovia City High School.
Coronado High School.	Mt. Tamalpais Military Academy.
Dixon Union High School.	Nevada City High School.
Escondido High School.	Oakdale Union High School.
Esparta Union High School.	Oakland High School.
Fresno High School.	Pasadena High School.
Hanford Union High School.	Paso Robles High School.
Miss Head's School, Berkeley.	Petaluma High School.
	Polytechnic High School.
	Pomona High School.



Redlands Union High School.	Santa Rosa High School.
Riverside High School.	Sonoma Valley Union High School.
Sacramento High School.	Southwest Institute, San Diego.
Salinas High School.	St. Matthew's School, San Mateo.
San Bernardino High School.	Stockton High School.
San Diego High School.	Throop Polytechnic Institute.
San Francisco Girls' High School.	Trinity School, San Francisco.
San Jose High School.	Tulare High School.
San Luis Obispo High School.	Ukiah High School.
San Rafael High School.	Vacaville Union High School.
Santa Ana High School.	Vallejo High School.
Santa Barbara City High School.	Ventura High School.
Santa Clara High School.	Visalia High School.
Santa Cruz High School.	Watsonville High School.
Santa Monica High School.	Miss West's School.
Santa Paula High School.	Woodland High School.

\*The State Normal Schools. Lincoln Evening High School.  
San Francisco Commercial High School.

---

N. B.—A revised list of accredited schools is in preparation by the authorities at Berkeley, but is not ready for publication.

---

### PRELIMINARY EXAMINATIONS.

There is a general examination for entrance held each year, on a fixed date, which is conducted by some well-known educator, who is selected for this purpose annually. Students desiring to enter must present themselves on the dates named, as no other examination for entrance will be given at the College.

Entrance examinations will be held at places distant from San Francisco at the same time as the regular examinations.

Applicants wishing to take the examination at places other than San Francisco should notify the Dean before August 10th.

The preliminary examinations for the session of 1897-98 will be held in San Francisco, at the College building, corner Market and Taylor Streets (entrance No. 18 Taylor Street), August 30th and 31st, at 9 o'clock A.M. Students desiring to present themselves at these examinations will please register their applications with the Clerk of the Faculty, at the College, No. 1170 Market Street.

---

\*The latter schools are only accredited in the subjects covered by their curriculum corresponding to our entrance requirement.

### THREE YEARS' STUDY.

The three years' course of study is arranged as follows:—

*Freshman Year.*—Anatomy, with dissections; Physiology and Histology, General and Dental; Chemistry, with laboratory work; Mechanical Dentistry; Operative Technic; Mechanical Technic; Microscopic Technic.

Examinations will be held at the end of the year in all the above branches.

*Junior Year.*—Anatomy, with dissections; Physiology and Histology, General and Dental; Chemistry; Mechanical Dentistry; Operative Dentistry; Pathology, Therapeutics, and Materia Medica; Orthodontia and Orthodontia Technic, Bacteriology.

Examinations will be held at the end of the year in all the above branches, and will be final in Anatomy, Physiology, Histology, Bacteriology, and Chemistry,

*Senior Year.*—Operative Dentistry; Mechanical Dentistry; Orthodontia, with practical cases; Metallurgy, with laboratory work; Pathology, Therapeutics, and Materia Medica; Surgery.

---

### REQUIREMENTS FOR GRADUATION.

The candidate for the degree of Doctor of Dental Surgery must have attained the age of twenty-one years, and be of good moral character.

He shall have passed a satisfactory examination, oral, written, and practical.

He shall have studied Dentistry *three* years, including the time spent in attending lectures.

He shall have attended three full courses in the College of Dentistry of the University of California, or two years in some other reputable Dental College of like standard of requirements for entrance, and the third or last in this College.

The candidate is required to dissect at least two quarters, upper and lower. He must treat thoroughly some patient requiring all the usual dental operations, and bring such patient before the Professors of Operative Dentistry and Dental Pathology and Therapeutics. He must also complete at least one practical artificial denture, insert at least one crown or piece of bridge-work, and, after completion, bring his patient before the Lecturer on

Mechanical Dentistry at least thirty days before the close of the term. He must treat one case of irregularity, and after the case is completed bring his patient before the Professor of Orthodontia during the term. He must also prepare a specimen denture, to be deposited in the College collection, and present the same to the Lecturer on Mechanical Dentistry at least thirty days before the end of the term. The operating and the work on the artificial cases must be done at the College building, and exclusively by the applicant for the degree.

*No student of this College will be permitted to practice Dentistry illegally while under the jurisdiction of the Faculty. Conviction of such practice will terminate the College career of the offender.*

After these requirements have been complied with, upon the recommendation of the Faculty and approval of the Board of Regents, the candidate shall receive the degree of Doctor of Dental Surgery.

#### SCHEDULE OF FEES.

Matriculation . . . . .	\$ 5 00*
Lecture Fees (each year) . . . . .	100 00
Practical Microscopy (Freshman) . . . . .	10 00
Practical Anatomy (first and second years) . . . . .	10 00
Fee for Final Examinations (not returnable) . . . . .	25 00

The fees for each term must be paid in advance.

#### TEXT-BOOKS.\*

The following books will be needed during the course of study. Students are advised to procure Nos. 1, 2, 3, 4, 5, 7, and 14 of the subjoined list at the beginning of the first year, and to add the others before the Senior year:—

1. Dental Dictionary, Harris, or Medical Dictionary, Dunglison or Thomas.
2. Anatomy, Gray (13th ed.), Morris, Quain, or Holden.
3. Physiology, Foster, Landois, Stewart's Manual.
4. Mechanical Dentistry, Richardson, Harris or Essig.
5. Operative Dentistry, Kirk, Taft, or Fillebrown.
6. Dental Chemistry, Mitchell.

\* The first-mentioned is the approved text-book.

7. Dental Anatomy, Black.
8. Orthodontia, Guilford.
9. Dental Metallurgy, Hogden and Essig.
10. Dental Materia Medica and Therapeutics, Gorgas or Stockens.
11. Surgery, Moullin, or Am. Text-Book of Surgery.
12. Therapeutics, Wood, Biddle, or Bartholow.
13. Dental Pathology, Abbott or Wedl.
14. Chemistry, Roscoe's Elementary Chemistry and Remsen's Introduction to the Study of Chemistry.
15. Materia Medica, National Dispensatory or United States Dispensatory.

ADDITIONAL BOOKS FOR REFERENCE.

Oral Surgery, Garretson.  
American System of Dentistry, Litch.  
Histology, Sterling.  
Microscopical Morphology, Heitzman.  
Pathology, Green.  
Therapeutics, Hare.  
Oral Deformities, Kingsley.  
Nitrous Oxide, Guilford.  
Mechanical Dentistry, Haskell.  
Micro-Organisms of the Human Mouth, Miller.  
Irregularities, Farrar or Talbot.  
Anatomy and Pathology of the Teeth, Böedecker.



## OUTLINE OF THE COURSE OF STUDY.

---

### BIOLOGY.

Professor Joseph LeConte will deliver a series of lectures on the Correlation of Vital with Physical and Chemical Forces; also, upon the Homologies of the Vertebrate Skeletons.

---

### OPERATIVE DENTISTRY.

The course of instruction in this department will be as comprehensive and thorough as approved appliances and methods can make it, and will embrace both the Didactic and Clinical courses.

Intra and extra uterine development of the teeth will be fully considered from the *primary* germ to the final loss of the permanent teeth.

The work will consist of a graded system of instruction, beginning with a comprehensive course in Operative Technics in the Freshman year, including a systematic study of tooth sections with silhouettes, and progressive block work, which is a feature of the course in this College, presenting an opportunity for the highest type of dental manipulative training. This is followed in the Junior year by a course in Clinical Technics, assisted by lectures and quizzes.

The Senior year is devoted to practical work in the Infirmary, supplemented by lectures on the principles and practice of Operative Dentistry.

It will be the aim of the department to make the entire course of lectures from this chair as practicable as possible, by a comparison of old and new methods, with a complete analysis of recent innovations in operative procedure, including the use of porcelain restorations.

Professor Dunbar will be assisted by Dr. H. P. Carlton and other Technic instructors, who will give ten hours each week to a series of Didactic and Clinical lectures, with a course in elementary and advanced Operative Technics for Junior and Freshman students.



## MECHANICAL DENTISTRY.

The instruction in Mechanical Dentistry will embrace everything necessary to enable the dentist successfully to apply substitutes for lost dental organs.

Special reference will be made to the principles involved in the restoration of the natural functions of the teeth, namely: mastication, enunciation, and expression of the features; keeping in view always the health and the future usefulness of the living parts.

The instruction is divided into two courses, as follows:—

*Freshman Course.*—Lectures on the treatment of the mouth and teeth preparatory to inserting artificial dentures; impressions in wax and plaster; casts; the manufacture of artificial teeth, their selection and arrangement for special cases; application of atmospheric pressure to artificial dentures; properties and uses in the construction of dentures, of wax, plaster, shellac, sandarach, rubber, and celluloid.

*Junior and Senior Course.*—Lectures on the construction of instruments, of dies and counter-dies, of models of the mouth, and of molds; construction of dentures on bases of gold, silver, and aluminum; continuous gum work.

The construction of crown and bridge work will receive especial attention.

---

## ORTHODONTIA.

The subject of Orthodontia has been developed so much during the past ten years that, from occupying a minor part in a course devoted to Mechanical Dentistry, it now occupies the entire time of the former occupant of that chair.

Instruction will be both didactic and clinical. One hour each week will be devoted to lectures on the cause, prevention, and treatment of irregularities. In this course will be included several lectures on Comparative Dental Anatomy, and the making of obturators and artificial vela. The lectures will be illustrated by crayon and blackboard drawings, specimens of all useful appliances, and casts of practical cases, a large number of which have accumulated from private practice and the College Infirmary. By means of the opaque stereopticon, casts can be projected on the screen for illustration.

Each week a clinical lecture will be given in the Infirmary, where each Senior student is required to treat a practical case of irregularity. As no two cases are alike, and each student can examine the cases of all the others, an exceptional opportunity is thus given for practical study.

Dr. Noble will give a course in Orthodontia Technic to the Juniors, who will be required to draw wire and tubing, both round and square, make screws and nuts, springs, bands, and all essential forms of regulating appliances. This course will prepare them for the practical work of the Senior year.

### PHYSIOLOGY.

The lectures in this department, by Professor D'Ancona, embrace a consideration of both General and Special Physiology, including all that has been developed up to the present time, and are illustrated by a complete series of colored drawings, prepared expressly for these lectures; besides which, the vast collection of preparations and drawings of the Scientific Department at Berkeley are at the command of the Professor. Vivisections are practiced when necessary to demonstrate principles, and the microscope and stereopticon are freely used for illustrating important facts and principles.

The course embraces the lectures of two years, one year being devoted to the physiology of the nervous system and reproduction, the other to nutrition, respiration, circulation, etc.

A course of lectures will be given on Embryology and Histology, and fully illustrated by photo-micrograph reproductions, charts, etc. This course will consist of a full consideration of the following subjects: A general study in the development of the chick and other embryos; the theory of reproduction, ova, segmentation, and the development of the three layers of the blastoderm; cellular morphology, including a comprehensive study of the biological cell, and the nature of protoplasm; the products of the epiblast, including the development of hair, nails, horns, hoofs, sudoriparous glands, and the enamel organ of the teeth. The products of the mesoblast, showing the development of the connective tissue group, including the subject of calcification of bone, dentine, and cement—illustrative of the latter,

many charts will be used in the comparative study of hard tissues,—and, lastly, the development of the teeth, will be fully considered by aid of a full line of illustrations from human and other embryos.

This will be supplemented by a course in practical work with the microscope, including Section Cutting, Staining, and Mounting, under the supervision of Professor D'Ancona, assisted by Dr. James G. Sharp, who will give a full course of laboratory training in Microscopic Technic, which will in future be a part of the Freshman curriculum, and must be completed in that year.

---

### **SURGERY.**

Professor William B. Lewitt, the Professor of the Principles and Practice of Surgery, will deliver one lecture each week on the Science and Art of Surgery, and devote one hour each week to a surgical clinic or recitation. His course will include General Surgical Principles and Pathology, and such lectures as may seem best adapted to students and practitioners of Dentistry. Also, a series of lectures on Anæsthesia and Anæsthetics, both general and local, with clinical illustrations before the class. Particular attention will be devoted to surgical diseases and injuries of the mouth, gums, and jaws, and the students will be instructed in their diagnosis, prognosis, and treatment, both by lectures and clinical demonstrations.

---

### **CHEMISTRY AND METALLURGY.**

Professor A. L. Lengfeld, in his course, will deliver two lectures each week, devoting special attention to that part of Chemistry which pertains more particularly to Dentistry. The lectures will be fully illustrated by means of all the necessary chemical and philosophical apparatus and numerous experiments. The nature, physical and chemical properties of the various remedies employed in Dentistry will be illustrated by the exhibition of crude drugs and pharmaceutical preparations, and by botanical plates and specimens.

The instruction in *Dental Metallurgy*, including the properties and uses of gold, silver, platinum, aluminum, zinc, lead, tin, and their alloys, and of iron and steel, will be made very complete.

Special attention will be paid to refining and alloying gold, and to estimating its fineness.

---

### PRACTICAL CHEMISTRY.

Dr. J. D. Hodgen, Assistant to the Chair, will conduct a systematic and practical course in Experimental Chemistry, Qualitative Analysis, and Salivary Analysis. Each student is provided with a separate table and a complete set of apparatus and chemicals, and performs individually all experiments and reactions. Two courses in practical chemistry are required.

I. *First Year.*—Following Remsen's Introduction to the Study of Chemistry as a guide, each student will perform a series of experiments in which he will develop the main principles of the science of Chemistry, and become familiar with the physical and chemical properties of the leading families of elements and their compounds.

II. *Second Year.*—The experimental work will be continued. Special regard will be given to Analytical Chemistry and the analysis of the saliva.

---

### PRACTICAL METALLURGY.

Practical laboratory instruction will be given by Dr. Hodgen in working of the metals, and each student will be required to conduct all the usual operations in Dental Metallurgy, as well as to make experiments in new compounds and alloys. Considerable attention will be paid to the analysis and compounding of amalgam alloys.

A fee of one dollar will be charged to cover breakage and loss.

---

### ANATOMY.

Professor Williamson's course in Anatomy will be illustrated by demonstrations on the cadaver, and by both wet and dry preparations, models, manikins, drawings, and diagrams, and will include the general anatomy of the entire body, with the special topographical and surgical anatomy appertaining to the head and neck.

The dissecting room is spacious, well ventilated, lighted from above, and provided with modern conveniences. It is open daily



throughout the year, under the superintendence of the Professor and Demonstrator of Anatomy. A supply of material is always procurable at small cost. When dissections are conducted in a diligent manner, the student is furnished with certificates stating the amount and part dissected. One of the Demonstrators will be present daily in the dissecting room during working hours, so that students will receive the proper attention and assistance.

An osteological room will be open during the term, where students will have the opportunity of studying the anatomy of bones and articulations. Special demonstrations will be conducted in this room for members of the Freshman class.

---

## DENTAL PATHOLOGY, THERAPEUTICS, AND MATERIA MEDICA.

The lectures delivered by the incumbent of this chair will embrace a full and comprehensive course on the following topics:—

1. GENERAL PATHOLOGY.—In which will be discussed those general aspects of diseases with which it is necessary to be acquainted in order to be able to understand the nature of any departure from health; causes of disease, symptoms, diagnosis, prognosis, temperaments, pathology of anæsthetics, irritation, determination, congestion, inflammation and its terminations, effusion, suppuration, ulceration, gangrene, sloughing, morbid growths, etc.

2. SPECIAL PATHOLOGY.—In which a critical examination will be made into the special causes of dental decay; dental hygiene and prophylaxis; diseases of the enamel—of the dentine; diseases of the dentinal pulp—together with the causes of alveolar abscess—its stages and results; exostosis of the roots and alveoli; necrosis and exfoliation; diseases of the antrum; tumors, benign and malignant; diseases of the mucous membrane.

Neuralgia and other nervous affections will receive such attention as their importance may demand; and, besides, there will be presented such other special diseases as may in any degree be of interest to the dental practitioner, such as scurvy, scrofula, rachitis, and other diseases of the bones.

3. GENERAL PRINCIPLES OF THERAPEUTICS.—Under which head the general application of medicines will be noticed—their actions, constitutional and topical.



4. **SPECIAL THERAPEUTICS.**—In connection with Dental Materia Medica; as incidentally related thereto.

5. **MATERIA MEDICA** will be taught by lectures and recitations.

---

#### **THE DENTAL LABORATORY.**

The Dental Laboratory will be in charge of the Superintendent of Infirmary, who will assign patients to students, and, with the Demonstrators of Mechanical Dentistry, will give practical instruction in preparing the mouth for the insertion of artificial teeth, taking impressions, selecting and arranging teeth, and the construction of artificial dentures on bases of vulcanite, celluloid, silver, gold, etc.; also in alloying, refining, and preparing the metals for use. Special attention will be given to continuous gum work. On account of the length of the term, the opportunities for practice in correcting irregularities of the teeth will be unsurpassed, and will receive their share of attention.

---

#### **THE DENTAL INFIRMARY.**

The Operating Department will be under the immediate supervision of the Superintendent of Infirmary, who will have entire charge.

The rooms will be open during the forenoons of Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, and during the afternoons of each day, except Saturday, until 5 o'clock, when all practical matters pertaining to Operative Dentistry will be fully dealt with by the Demonstrators, one of whom will always be present. The Infirmary will be open throughout the entire year, thus affording a practical course for first and second year students, unsurpassed by any similar institution. As there is always an excess of clinical material on hand, and there are 648 hours per term (including three hours each Wednesday afternoon) devoted to practical consideration of diseases of the teeth and the adjacent parts, it is not difficult to estimate the advantages the students have in this department.

---

#### **DISSECTIONS.**

The work in Practical Anatomy will be performed under the direction of the Demonstrator of Anatomy and his Assistant, in

the dissecting room of the College of Medicine, Toland Hall, Stockton Street, between Chestnut and Francisco. The dissecting room is open throughout the entire year; a full supply of material is always on hand, at small cost, and is thoroughly preserved from decomposition. Upon the proper completion of the required dissections, the student is furnished by the Demonstrator with a certificate to that effect, which must be presented to the Dean for record.

The dissecting ticket (\$10) is good for the whole term—from January 1st to December 31st.

---

### CLINICAL INSTRUCTION.

During the course, Wednesday afternoon, from 1 to 3, will be devoted to Clinical lectures and operations by the Professors and visiting clinicians.

---

### HOSPITALS.

All students in Dentistry will have the same facilities and opportunities enjoyed by the medical students in hospital practice and observation. They will have the freedom, as above represented, of the City and County Hospital and the City Receiving Hospital.

Medical and Surgical Clinical lectures are given by the Professors of the Medical Department of the City and County Hospital, Tuesdays, Thursdays, and Saturdays, from 9 to 11 A.M.; attendance upon which, though not a requirement, is recommended, on account of the unsurpassed facilities for study of anæsthetic methods.

For further particulars on this subject, see Medical Department Announcement.

---

### LIBRARY AND MUSEUM.

A nucleus has been formed, from which it is hoped a large library and museum will grow. All members and friends of the profession are invited to contribute books, pamphlets, and journals, charts, anatomical, physiological and pathological specimens, casts of deformities and irregularities of the teeth and associate parts, or anything that will be useful and instructive.

These contributions will be placed in the library and museum, and marked with the names of the donors, if desired.

*As a separate library and reading room is now provided, a special request is made for books and pamphlets.*

The Faculty desires to gratefully acknowledge donations of books, pamphlets, and specimens from Drs. W. E. Taylor, A. L. Lengfeld, W. A. Knowles, W. F. Lewis, J. M. Whitney, Jorge Arroyo, John Rabe, F. H. Metcalf, E. L. Townsend, C. A. Litton, and the estates of the late Drs. E. F. Bunnell and W. B. Kingsbury.

L. L. DUNBAR, Dean of the Faculty,  
606 Sutter Street, San Francisco.

---

**N. B.—Boarding.** The expense of living in the city of San Francisco is very reasonable. Good board, with room rent, may now be procured at the low rate of five dollars per week, at a convenient distance from the College building.

There is a free public library in San Francisco, of which students may have full benefit.

Upon arriving in the city, students will immediately register in the Dean's office, at the College building, No. 1170 Market Street.



TOOLS AND APPLIANCES REQUIRED BY FRESHMAN STUDENTS.

# TOOLS AND APPLIANCES REQUIRED BY JUNIOR AND SENIOR STUDENTS.

## FOR LABORATORY WORK.

1 Mechanical Blowpipe . . . . .	\$ 3.50
1 pair Plate Shears, S. S. White . . . . .	1.00
1 pair Plate Nippers, S. S. White . . . . .	2.75
1 pair Flat-nose Pliers . . . . .	.50
1 pair Round-nose Pliers . . . . .	.50
1 Plate Punch . . . . .	2.25
1 Half-round File, fine . . . . .	.25
1 Flat File, fine . . . . .	.25
1 Horn Hammer . . . . .	.38
1 Riveting Hammer, convex face . . . . .	.70
1 pair Long Soldering Pliers . . . . .	.10
1 Soldering Support . . . . .	.75
1 Swage . . . . .	
1 Artificial Plate Brush, Florence plate . . . . .	.50
1 Clasp Bender . . . . .	2.25
1 Triangular File . . . . .	.35
1 Steel Burnisher . . . . .	.50
1 Large Flat File . . . . .	.35
1 Jeweler's Saw-frame and Saws . . . . .	.60— .15
1 pair Calipers . . . . .	.25
Emery Cloth and Paper . . . . .	.50
Additional Corundum Wheels . . . . .	

## FOR ORTHODONTIA TECHNIC.

Screw Plate . . . . .	\$ 1.25
Draw Plate . . . . .	1.50
Pin Vice . . . . .	.60
Draw Tongs . . . . .	1.00

## JUNIOR AND SENIOR INSTRUMENTS FOR INFIRMARY.

1 set of Pluggers, U. C. Set . . . . .	\$1.05†	\$8.40
1 Jennings Case Mallet . . . . .	2.00	2.00
1 doz. Selected Excavators, U. C. Set . . . . .	1.50	2.50
1 set 6 Chisels, U. C. Set. . . . .	.75	1.25
1 set Amalgam Instruments (Flagg's) . . . . .	3.00	3.00
1 doz. Cavity Burs for Engine . . . . .		2.25
¼ doz. Plug Finishing Burrs for Engine . . . . .		1.20
1 doz. Assorted Corundum and Rubber Points . . . . .		.50
1 Mandrel . . . . .		.25
¼ doz. Gold Finishing Files . . . . .		1.71
½ doz. R. Dam Clamps . . . . .		2.40
1 R. Dam Holder . . . . .		1.00

†The items in this column should be in the outfit of each student from previous purchase.



1 R. Dam Punch . . . . .		3.50
1 set R. Dam Weights . . . . .		1.00
1 pair Wedge Cutters . . . . .		2.25
*1 pair Foil Carriers . . . . .	1.00	1.00
1 pair Foil Shears . . . . .		1.00
1 pair Clamp Forceps . . . . .		3.00
1 Mouth Mirror, magnifying . . . . .		1.00
*1 Chip Blower . . . . .	.40	.40
1 Water Syringe . . . . .		1.00
1 Separating Saw . . . . .		.75
1 set of Scalers . . . . .		2.00
1 Ball and Blade Burnisher . . . . .		.50
*1 Large Arkansas Stone . . . . .	.60	.60
1 package Cleansers, No. 4 . . . . .		1.25
*1 Broach Holder . . . . .	.75	.75
1 package Orange Wood . . . . .		.10
1 Slab and Spatula for Cements . . . . .	.25 .50	.75
1 package Absorbent Cotton . . . . .		.20
1 package Spunk . . . . .		.20
1 Engine Head, Sleeve, Cable, and Hand-piece . . . . .		21.00
1 doz. 18-in. White Napkins . . . . .		
Perry or Ivory Separators—Ivory . . . . .		3.50

Students are requested to mark their property for identification.



# STUDENTS OF THE SESSION OF 1896-97.

## SENIOR CLASS.

NAME.	RESIDENCE.	PRECEPTOR.
Ashley, Julian Woods . . . .	San Francisco, Cal.	A. A. Gaston.
Atwater, Henry Cook* . . . .	Oakland, Cal. . . . .	Col. of Dentistry, U.C.
Bosqui, Benjamin Avery . . . .	Ross, Cal. . . . .	Col. of Dentistry, U.C.
Clay, Edwin Andrews . . . .	San Buenaventura . . . .	Dr. H. M. & J. M. Staire.
Coffin, Charles Alfred . . . .	Reno, Nev. . . . .	Col. of Dentistry, U.C.
Cushing, Stephen Russell . . . .	San Jose, Cal. . . . .	D. E. Nash, D.D.S.
Collins, Asa Weston . . . . .	Oakland, Cal. . . . .	Col. of Dentistry, U.C.
Colburn, Orville Mirtland . . . .	Woodland, Cal. . . . .	Col. of Dentistry, U.C.
Croall, Miss Medora Vaux . . . .	San Francisco, Cal. . . .	Col. of Dentistry, U.C.
Donnelley, George Samuel . . . .	San Francisco, Cal. . . .	Col. of Dentistry, U.C.
Durham, Judge Haley . . . . .	Irvington, Cal. . . . .	F. Z. Pickery, D.D.S.
Fiske, Edward Sewell . . . . .	San Francisco, Cal. . . .	M. F. Gabbs, D.D.S.
French, Howard West . . . . .	Oakland, Cal. . . . .	D. S. Richardson.
Gilson, Ray Edson . . . . .	Oakland, Cal. . . . .	Col. of Dentistry, U.C.
Hanson, Herman Peirce . . . .	San Jose, Cal. . . . .	Col. of Dentistry, U.C.
Harnden, Frederic William . . . .	San Francisco, Cal. . . .	S. H. Tolhurst.
Higgins, Theo. Shelton . . . . .	Worcester, Mass. . . . .	Col. of Dentistry, U.C.
Holladay, William Robin . . . .	Pomona, Cal. . . . .	H. W. Brodbeck, D.D.S.
Hughes, Walter Renwick . . . .	Fresno, Cal. . . . .	Col. of Dentistry, U.C.
Herrington, William Merced . . . .	Fresno, Cal. . . . .	B. B. Cory, D.D.S.
Jarvis, Chas. Fitz-Howard . . . .	Oakland, Cal. . . . .	Col. of Dentistry, U.C.
Jones, Paul Clinton . . . . .	Ross, Cal. . . . .	Col. of Dentistry, U.C.
Johnson, Frank D. . . . .	Chico, Cal. . . . .	Col. of Dentistry, U.C.
Keeffe, Edmond Douglas . . . .	San Francisco, Cal. . . .	H. G. Young.
Kerwin, Louis Joseph . . . . .	West Side, Cal. . . . .	Col. of Dentistry, U.C.
Marckres, Clair Cutting . . . . .	San Jose, Cal. . . . .	Col. of Dentistry, U.C.
Morris, Julius Ira . . . . .	Los Angeles, Cal. . . .	J. A. Cronkhite.
McCarthy, Chas. Joseph . . . .	Napa, Cal. . . . .	E. M. Porter.
McMurray, Milton . . . . .	Crescent City, Cal. . . .	Col. of Dentistry, U.C.
Plunkett, James Arthur . . . . .	Oakland, Cal. . . . .	Col. of Dentistry, U.C.
Quirk, Thomas Hopkins . . . . .	Gold Hill, Nev. . . . .	C. C. Conwell, D.D.S.
Raymond, George Washington . . . .	San Francisco, Cal. . . .	E. N. Short, D.D.S.
Reynolds, Harry Clendenin . . . .	Upper Lake, Cal. . . . .	Col. of Dentistry, U.C.
Robinson, Miss Frank Oniska . . . .	Petaluma, Cal. . . . .	Col. of Dentistry, U.C.
Rulison, Miss Helen May . . . . .	Reno, Nev. . . . .	Col. of Dentistry, U.C.
Russell, Edward Weld . . . . .	Martinez, Cal. . . . .	W. A. Moore.
Reich, Chas. Louis . . . . .	San Francisco, Cal. . . .	Col. of Dentistry, U.C.

\* Not in attendance.

NAME.	RESIDENCE.	PRECEPTOR.
Scott, Miss Fannie Elsie . . .	Oakland, Cal. . . .	S. P. Tate, Jr.
Stealey, Edwin Matthew . . .	San Francisco, Cal. .	Col. of Dentistry, U.C.
Stiles, Henry . . . . .	San Jose, Cal. . . .	Col. of Dentistry, U.C.
Sumner, Charles Maurice . . .	San Jose, Cal. . . .	J. L. Asay, M.D.
Tomkins, Geo. Henry . . . .	San Francisco, Cal. .	Col. of Dentistry, U.C.
Upton, Edward Albright . . .	Oakland, Cal. . . .	Col. of Dentistry, U.C.
Wachs, Martin . . . . .	Oakland, Cal. . . .	W. E. Brooks.
Wheeler, Thos. Rattray . . .	Concord, Mass. . . .	Boston Dental College.

### *JUNIOR CLASS.*

NAME.	RESIDENCE.	PRECEPTOR.
Allen, Henry Graham . . . .	San Francisco, Cal. .	C. L. Ziegler, D.D.S.
Alexander, Milton Oscar . . .	San Francisco, Cal. .	O. P. Myers.
Aiken, Perley Bosworth . . .	Paia, I. of Maui, H. I.	Col. of Dentistry, U.C.
Beers, Miss Mabel Lucille . . .	San Francisco, Cal. .	Col. of Dentistry, U.C.
Burridge, Walter Joseph . . .	San Francisco, Cal. .	Harry G. Young.
Clark, Marcellus Edmund . . .	San Francisco, Cal. .	J. D. Hodgen, D.D.S.
Cline, Jean . . . . .	Portland, Or. . . .	Col. of Dentistry, U.C.
Cooper, John Hill . . . . .	Campbell, Cal. . . .	Col. of Dentistry, U.C.
Craig, Homer Theodore . . . .	Oakland, Cal. . . .	Col. of Dentistry, U.C.
Dodel, Xavier, M.D. . . . .	Wolfert, Germany . .	Col. of Dentistry, U.C.
Du'Bois, Charles Hall . . . .	San Rafael, Cal. . . .	Col. of Dentistry, U.C.
Edwards, Andrew Lewis . . . .	San Francisco, Cal. .	Col. of Dentistry, U.C.
Emery, Charles A. . . . .	San Francisco, Cal. .	H. C. Davis.
Estes, Weston Burgess . . . .	Sacramento, Cal. . .	W. C. Reith, D.D.S.
Fairweather, Norman Stanley*	San Francisco, Cal. .	Chas. Boxton, D.D.S.
Fellner, Alfred . . . . .	Vienna, Austria . . .	Univ. of Michigan.
Gottenberg, Hartley Williams .	Oakland, Cal. . . .	F. J. Lane, D.D.S.
Griffith, Charles Moses . . . .	San Jose, Cal. . . .	Warren DeCrow.
Hall, Robert Thomas* . . . .	Fresno, Cal. . . . .	Col. of Dentistry, U.C.
Halsey, Norman Hartley . . . .	Oakland, Cal. . . .	W. H. Halsey, D.D.S.
Henderson, William Daniel . . .	Berkeley, Cal. . . .	C. C. Cornwell.
Hiniker, Andrew Jackson . . .	San Rafael, Cal. . . .	Col. of Dentistry, U.C.
Hines, John Percey . . . . .	Fresno, Cal. . . . .	H. J. Plomteaux, D.D.S.
Hinckley, Ira Loomis . . . . .	Fillmore, Cal. . . .	Col. of Dentistry, U.C.
Jones, Edward Morgan . . . .	Ross Valley, Cal. . .	Col. of Dentistry, U.C.
Jones, Perley Centennial . . .	Pacific Grove, Cal. .	Dr. J. Van Horner.
Jones, Thomas Rodney . . . .	Martinez, Cal. . . .	T. J. Frazer, D.D.S.
Jordon, Miss Minnie Evangeline	Ontario, Cal. . . . .	Col. of Dentistry, U.C.
Lemmon, Charles Fisher . . . .	San Francisco, Cal. .	A. T. Derby, D.D.S.
Linscott, William Raymond . .	Santa Cruz, Cal. . . .	J. P. Parker, D.D.S.
MacDonald, Miss Flora Mae . .	San Francisco, Cal. .	Col. of Dentistry, U.C.
Mariotte, Louis Paul . . . . .	Oakland, Cal. . . .	Col. of Dentistry, U.C.
McPike, Charles Luttrell . . .	Vallejo, Cal. . . . .	Col. of Dentistry, U.C.
Menton, Hubert Oscar Francis	Santa Clara, Cal. . .	G. H. Worrall, D.D.S.
Millar, Jas. Benjamin Franklin	San Francisco, Cal. .	C. H. Bell, D.D.S.

\* Not in attendance.

NAME.	RESIDENCE.	PRECEPTOR.
Morey, Charles Leonard . . .	Oakland, Cal. . . .	Col. of Dentistry, U.C.
Mulrenin, Edward Martin* . .	San Francisco, Cal. .	N. T. Coulson, D.D.S.
Nathan, Alfred Cooper . . .	Sydney, N. S. W. . .	Dr. C. G. Hoopson.
Painter, Jerome Bonaparte . .	Alameda, Cal. . . .	Col. of Dentistry, U.C.
Parker, Miss Helen Agnes . .	Oakland, Cal. . . .	Col. of Dentistry, U.C.
Pratt, Armstrong Cooper . . .	San Bernardino, Cal.	Col. of Dentistry, U.C.
Rulofson, Alfred Currie, Jr. .	San Francisco, Cal. .	Col. of Dentistry, U.C.
Schillig, George E. . . . .	Yuba City, Cal. . . .	Col. of Dentistry, U.C.
Scott, Franklin Trewick . . .	Sacramento, Cal. . .	Wm. Wood.
Sellwood, Frank Convers . . .	Salem, Or. . . . .	Col. of Dentistry, U.C.
Sisson, Ernest Kirkpatrick . .	San Francisco, Cal. .	J. P. Parker, D.D.S.
Smith, Thomas Martin . . . .	San Jose, Cal. . . . .	Col. of Dentistry, U.C.
Smyth, Walter Joseph . . . .	Oakland, Cal. . . . .	Col. of Dentistry, U.C.
Spooner, Charles Walter* . . .	Weston, Cal. . . . .	Col. of Dentistry, U.C.
Stalder, Joseph Mehlert . . .	Oakland, Cal. . . . .	Col. of Dentistry, U.C.
Stanford, George Grant . . .	San Francisco, Cal. .	Col. of Dentistry, U.C.
Stephens, Charles Joy . . . .	Paris, Ky. . . . .	Col. of Dentistry, U.C.
Stewart, George Henry . . . .	San Francisco, Cal. .	C. L. Ziegler, D.D.S.
Van Amringe, David Ralph . .	Oakland, Cal. . . . .	Edgar L. Dow, D.D.S.
Walden, William Alfred . . .	Stockton, Cal. . . . .	Col. of Dentistry, U.C.
Vanz, Arthur Henry . . . . .	San Francisco, Cal. .	Henry Sylvester, Jr., D.D.S.
Vard, Herbert Bruce . . . . .	San Francisco, Cal. .	Col. of Dentistry, U.C.
Varnekros, William Louis . . .	Fresno, Cal. . . . .	Col. of Dentistry, U.C.
Vatkins, Frank Dilts . . . . .	San Jose, Cal. . . . .	F. K. Ledyard.
Vilcoxon, Caleb Russell . . .	Yuba City, Cal. . . .	C. L. Ziegler, D.D.S.
Vorthington, Miss Jean Irene .	San Francisco, Cal. .	Col. of Dentistry, U.C.
Vymore, George Henry . . . .	Melitta, Cal. . . . .	Col. of Dentistry, U.C.

### FRESHMAN CLASS.

NAME.	RESIDENCE.	PRECEPTOR.
Arroyo, Ricardo . . . . .	Antigua, Guatemala .	Jorge Arroyo, D.D.S.
Blin, Wm. Robertson . . . .	Salem, Or. . . . .	Col. of Dentistry, U.C.
Bacon, Wm. Robt. . . . .	Alameda, Cal. . . . .	Col. of Dentistry, U.C.
Burns, Paul Milton . . . . .	San Francisco, Cal. .	Col. of Dentistry, U.C.
Barnett, Joseph . . . . .	New York City, N.Y.	Col. of Dentistry, U.C.
Baker, Arthur Woodley . . .	San Francisco, Cal. .	Col. of Dentistry, U.C.
Bake, Robt. Johnson . . . .	San Francisco, Cal. .	A. E. Blake, M.D., D.D.S.
Bosson, Miss May . . . . .	Carson City, Nev. . .	Col. of Dentistry, U.C.
Boall, Miss Anna Belle . . .		
Paterson . . . . .	San Francisco, Cal. .	L. Van Orden, D.D.S.
Blegrove, John Albert . . . .	Oakland, Cal. . . . .	E. L. Dow, D.D.S.
Baise, Geo. Milton . . . . .	San Francisco, Cal. .	A. C. Hart, D.D.S.
Bullender, Monroe . . . . .	San Francisco, Cal. .	

\*Not in attendance.



NAME.	RESIDENCE.	PRECEPTOR.
Comte, Geo. Augustus*	San Francisco, Cal.	Louis E. Brun, D.D.S.
Dunbar, Palmer Howard	San Francisco, Cal.	Luis L. Dunbar, D.D.S.
Dixon, Matthew Wm.	Warm Springs, Cal.	Col. of Dentistry, U.C.
Deckelman, Francis Emil	San Francisco, Cal.	N. T. Coulson, D.D.S.
Fugler, Cecil Albert	Santa Maria, Cal.	Col. of Dentistry, U.C.
Fogerty, Joseph Ignatius*	Sydney, N. S. W.	Col. of Dentistry, U.C.
Fitzgerald, John James	Virginia City, Nev.	Col. of Dentistry, U.C.
Grant, Frederick Thos.	Healdsburg, Cal.	W. E. Nye, D.D.S.
Gove, Geo. Weston	Berkeley, Cal.	Col. of Dentistry, U.C.
Gruss, Francis Jos.	San Francisco, Cal.	Col. of Dentistry, U.C.
Ginno, John Wm.	Woolwich, Eng.	C. W. Decker.
Golding, Wm. Herbert	San Bernardino, Cal.	Col. of Dentistry, U.C.
Gambitz, Lee Robt.	San Francisco, Cal.	M. R. Gambitz, D.D.S.
Herrmann, Miss Leonore Frieda	San Francisco, Cal.	Col. of Dentistry, U.C.
Halsted, James La Fayette, Jr.	San Francisco, Cal.	Col. of Dentistry, U.C.
Hus, Francois Louis Marium	Oakland, Cal.	Col. of Dentistry, U.C.
Hoffer, Virgil	Santa Rosa, Cal.	I. H. Rankin, D.D.S.
Hamlin, Benagah Ralph	Alameda, Cal.	Col. of Dentistry, U.C.
Hocker, Jos. Michael Francis	San Francisco, Cal.	Col. of Dentistry, U.C.
Kuster, Chas. Frederick	Wheatland, Cal.	Col. of Dentistry, U.C.
Lawson, Wm. Joseph	Silver City, Nev.	Col. of Dentistry, U.C.
Luebbert, Emil Robt.	Guaymas, Mexico	Col. of Dentistry, U.C.
Likens, Geo. Willis	Carson, City, Nev.	J. W. Likens, D.D.S.
Meyer, Wm. Preston	San Francisco, Cal.	S. R. Jacobs.
Mayhew, Wm. Horace	San Francisco, Cal.	Col. of Dentistry, U.C.
McKee, Alex. Ignatius	Oakland, Cal.	Col. of Dentistry, U.C.
Piper, Stephen Livingston	San Francisco, Cal.	Col. of Dentistry, U.C.
Parks, Louis Herbert	Marysville, Cal.	Col. of Dentistry, U.C.
Patterson, Andrew Darwin	Visalia, Cal.	Col. of Dentistry, U.C.
Renwick, Wallace Hiram	Sacramento, Cal.	W. Wood.
River, Joseph Patrick	San Francisco, Cal.	Col. of Dentistry, U.C.
Scheu, Richard Edward	San Francisco, Cal.	Col. of Dentistry, U.C.
Sullivan, Abraham Sinclair	San Francisco, Cal.	Col. of Dentistry, U.C.
Schiller, Morris	San Diego, Cal.	D. Cave.
Southworth, Stephen Scott	San Rafael, Cal.	E. L. Southworth, D.D.S.
Soher, Henry Charles	San Francisco, Cal.	H. C. Young.
Stateler, Thos. Melville*	Alameda, Cal.	University of Cal'a.
Tennyson, Howard Alan	San Francisco, Cal.	G. F. Nevins, D.D.S.
Tennyson, Clarence Bruce	San Francisco, Cal.	J. W. Davy, D.D.S.
Tate, Alonzo Walter	Oakland, Cal.	S. P. Tate, Jr.
Turner, Miss Rosa Edith	Modesto, Cal.	Col. of Dentistry, U.C.
Williams, John Jarvis	Modesto, Cal.	Col. of Dentistry, U.C.
White, Arthur Loring	San Francisco, Cal.	J. N. Powell.
Woolsey, Eugene Geo.	Ione, Cal.	Col. of Dentistry, U.C.
Walsh, James William	Oakland, Cal.	J. M. Dunn, D.D.S.

\* Not in attendance.



NAME.	RESIDENCE.	PRECEPTOR.
Warner, Charles Pomroy . . .	Montgomery, Ala. . .	Col. of Dentistry, U.C.
Whitney, Edward Otis . . .	San Jose, Cal. . . .	J. A. Frazer, D.D.S.
Zoberbier, Ernest August . . .	Hanover, Germany .	Col. of Dentistry, U.C.

### *SPECIAL STUDENTS.*

NAME.	RESIDENCE.	PRECEPTOR.
Dodge, Hudson DeWolf . . .	Tacoma, Wash. . . .	J. Wade King.
Finley, Edward Bonny . . .	San Francisco, Cal. .	Col. of Dentistry, U.C.
Ohara, Totaro . . . . .	San Francisco, Cal. .	M. E. Grossman, D.D.S

### SUMMARY.

SENIORS . . . . .	44
JUNIORS . . . . .	61
FRESHMAN . . . . .	60
SPECIAL STUDENTS . . . . .	3
Total . . . . .	168



## GRADUATES.

---

### 1882.

Thomas Watson Hall . . . . .	Oakland, California
Charles Wesley Hibbard . . . . .	San Francisco, California
Thomas Morffew . . . . .	San Francisco, California
Henry John Plomteaux . . . . .	Oakland, California
Charles Wesley Richards . . . . .	San Francisco, California
Gustave William Sichel, M.D. . . . .	San Francisco, California
William Henry Stanley . . . . .	San Francisco, California
August Van Crombrughe† . . . . .	San Francisco, California

### 1883.

John Nelson Blood* . . . . .	Greenville, California
Charles Boxton . . . . .	San Francisco, California
Maria Angelina Burch* . . . . .	Pescadero, California
Edward Overton Cochrane . . . . .	San Francisco, California
Russell Hopkins Cool . . . . .	Oakland, California
Milton Francis Gabbs . . . . .	San Francisco, California
William Edmund Price . . . . .	San Francisco, California

### 1884.

George Washington Cool . . . . .	Oakland, California
John Michael Dunn . . . . .	Oakland, California
Archibald Duncan Gleaves . . . . .	Anderson, California
Robert Nicol . . . . .	India
Gustave Carl Reitzke . . . . .	San Francisco, California
William Henry Simmons . . . . .	Oakland, California
Elmer Joseph Weldon† . . . . .	Vacaville, California

### 1885.

Henry Sylvester Bettis . . . . .	Boise City, Idaho
George Botsford . . . . .	San Francisco, California
Daniel Barratt Cate . . . . .	Quincy, California
Nathaniel Thomas Coulson . . . . .	San Francisco, California
George Ihmer Drucker . . . . .	San Francisco, California
William Ellis Fitzpatrick . . . . .	San Francisco, California
Walter Robert Henderson . . . . .	Stockton, California
John Adams Douglas Hutton . . . . .	West Berkeley, California
Franklin Pancoast . . . . .	San Francisco, California
Charles Theodore Rodolph . . . . .	Oakland, California

---

\* Deceased.

† Name changed to August Van Crom by Superior Court, San Francisco, July 22, 1889.

Frederick Judson Saxe, A. M. . . . . Oakland, California  
Joseph Schneider . . . . . San Salvador, Central America  
Henry Sylvester, Jr. . . . . San Francisco, California

1886.

Harry Putnam Carlton . . . . . San Francisco, California  
Hector Ludovic Couret . . . . . Sonora, Mexico  
Martin Joseph Dunn . . . . . San Francisco, California  
Nicholas Anton Givovich . . . . . Cardiff, Wales  
John Gow Humphrey . . . . . Alameda, California  
Thomas Harvey Morris . . . . . San Francisco, California  
William Cormack Reith . . . . . Sacramento, California  
Joseph Emil Sand . . . . . San Francisco, California  
Benjamin Franklin Simmons . . . . . Oakland, California  
William Oltman Stuttmeister . . . . . Redwood City, California  
William Grover Sylvester . . . . . San Francisco, California

1887.

Edward Livingston Davis . . . . . San Francisco, California  
Joseph Dupuy Hodgen . . . . . San Francisco, California  
Harold McKean Jones . . . . . Cloverdale, California  
Edward Maldonado . . . . . San Francisco, California  
Robert Eugene Payne . . . . . San Francisco, California  
Charles Edgar Post . . . . . San Francisco, California  
Arthur Theodore Regensburger . . . . . San Francisco, California  
George Frederick Rodden . . . . . San Francisco, California  
George Walter Rodolph . . . . . Oakland, California  
Granville Eugene Shuey . . . . . East Oakland, California  
Jennie Martin Simpson . . . . . San Francisco, California  
Otto Frank Westphal . . . . . San Francisco, California

1888.

Ira Hart Chapman . . . . . San Francisco, California  
Samuel Alston Hackett . . . . . Oakland, California  
Frank Lewis Hultberg . . . . . San Francisco, California  
Philander McCargar . . . . . Oakland, California  
Joseph Pfister . . . . . Suisun, California  
William George Shankey . . . . . San Francisco, California  
Edward Nelson Short . . . . . San Francisco, California  
Charles Sawtelle Weston . . . . . Oakland, California

1889.

Milton Ross Gambitz . . . . . San Francisco, California  
Benjamin Mitchell Gunzberger . . . . . San Francisco, California  
William Alexander Meyer . . . . . San Francisco, California  
Warren Guice Mobley . . . . . Oakland, California  
Dorr Gash . . . . . San Jose, California  
Andrew John Powell . . . . . Haywards, California  
Edward William Pratt . . . . . San Francisco, California  
Frederick Courtland Sutliff . . . . . Sacramento, California  
Arthur Henry Wallace . . . . . San Francisco, California

1890.

Frederick Harrison Allbright . . . . .	Red Bluff, California
Gotthard Sigismund Backman . . . . .	San Francisco, California
Frank Drake Burleson . . . . .	Santa Cruz, California
Paul Charles Erhardt . . . . .	Germany
William T. Heider . . . . .	Oakland, California
Charles Alex Herrick . . . . .	Jackson, California
Saul Robert Jacobs . . . . .	San Francisco, California
Charles Ashby Litton . . . . .	San Francisco, California
Walter Romain Lovegrove . . . . .	San Francisco, California
George Martin . . . . .	Berlin, Germany
Clark Harrison Rawson . . . . .	Jamestown, New York
Richard McCargar . . . . .	San Francisco, California
John Matthew Redmond . . . . .	Santa Rosa, California
David Warren Rulison . . . . .	Reno, Nevada
William Fuller Sharp . . . . .	San Francisco, California
Albert John Sylvester . . . . .	San Francisco, California

1891.

Josephine Wright Armstrong . . . . .	San Francisco, California
Charles Franklin Bauer . . . . .	San Francisco, California
Charles Henry Bell . . . . .	San Francisco, California
John Millard Blodgett . . . . .	Lodi, California
Cecil Corwin . . . . .	Oakland, California
D. Carter Elliott . . . . .	Martinez, California
Philip Foster Frear . . . . .	Oakland, California
Charles Lawrence Griswold . . . . .	St. Paul, Minnesota
Charles George Hyde* . . . . .	Merced, California
Edwin Chandler Hyde . . . . .	Phoenix, Arizona
William Martin . . . . .	Oakland, California
John Patrick McCarthy . . . . .	San Francisco, California
Charles Avan Meek . . . . .	San Francisco, California
Albert Dean Elmore Miles . . . . .	San Francisco, California
Robert Forrester Millar . . . . .	Alameda, California
Robert Isaac Moore . . . . .	Honolulu, H. I.
Howard Delos Noble . . . . .	San Francisco, California
Forrest Hoy Orton . . . . .	St. Paul, Minnesota
Frank Harry Phillips . . . . .	Hollister, California
Harry Griffin Richards . . . . .	San Francisco, California
Harold Lawrence Seager . . . . .	San Francisco, California
Harry Howard Shaw . . . . .	San Francisco, California
George Newins Van Orden . . . . .	San Francisco, California
Gustavus Adolphus Weyer . . . . .	Modesto, California

1892-93.†

Edmund James Alger . . . . .	Santa Cruz, California
Reginald Heber Allen . . . . .	East Oakland, California
Jorge Arroyo . . . . .	Guatemala, Central America

\* Deceased.

† Session changed from summer to winter.

Frank Parker Ashworth . . . . .	San Jose, California
William Nelson Avery . . . . .	San Jose, California
Augustus Griffin Bennett, Jr. . . . .	San Jose, California
Paul Stirling Coke . . . . .	San Jose, California
Emile William Davis . . . . .	Melbourne Australia
Cecil Chalmers Dennis . . . . .	San Francisco, California
Albert Terrill Derby . . . . .	San Francisco, California
William Caughlin Grove . . . . .	Oakland, California
Wilbur Hanford Halsey . . . . .	Oakland, California
George Herman Huddy . . . . .	Honolulu, H. I.
Oscar Litchfield . . . . .	Healdsburg, California
William Andrew McQuitty . . . . .	San Francisco, California
George Hubbard Meredith . . . . .	
Edward Thomas Mervy . . . . .	Oakland, California
Edward Franklin Parr . . . . .	Chico, California
Corydon B. Root . . . . .	San Francisco, California
Ernest Frederick Schlott . . . . .	San Francisco, California
Frederick Schumacher . . . . .	San Jose, California
Walter Kendal Scott . . . . .	San Francisco, California
James Graham Sharp . . . . .	San Francisco, California
Allen Holman Suggett, B.S. . . . .	Marysville, California
Harry Francis Sullivan . . . . .	Oakland, California
Robert Lee Taylor . . . . .	San Francisco, California
William Emmett Taylor . . . . .	Oakland, California
William Treleaven Thomas * . . . .	Gold Hill, Nevada

#### 1893-94.

Edward Ellsworth Baird . . . . .	Sanger, California
William Henry Cavell . . . . .	Carson, Nevada
McCoy Chappell . . . . .	Lompoc, California
Conrad Deichmiller . . . . .	San Francisco, California
John Alvin Gibbon . . . . .	San Francisco, California
Gilbert Fuller Graham . . . . .	San Francisco, California
Robert Frederick Gray . . . . .	San Francisco, California
Walter Simpson Jewell . . . . .	Oakland, California
James William Likens . . . . .	San Francisco, California
William O'Rourke . . . . .	Oakland, California
Henry Powell, Jr. . . . .	Haywards, California
Walter Judson Taylor . . . . .	Sacramento, California
Leander Van Orden, M.D. . . . .	San Francisco, California
Thomas Augustus Vogel . . . . .	San Francisco, California
David John Vogelmann . . . . .	Vallejo, California
Walter Irving Wilcox . . . . .	San Francisco, California
Charles Custar Wood . . . . .	Modesto, California
William Henry Wadsworth . . . . .	Ukiah, California

\* Deceased.



**1894-95.**

William Amos Atwood . . . . .	San Francisco, California
Frederick Richard Axton . . . . .	San Francisco, California
Thomas Francis Barrett . . . . .	San Francisco, California
Herbert Andrew Bernard . . . . .	Bakersfield, California
John Nicholas Borger . . . . .	San Francisco, California
John Bennett Bowles . . . . .	Guatemala, Central America
James Albert Brown . . . . .	San Francisco, California
Louis Ettienne Brun, B.S. . . . .	San Francisco, California
Byron Leonard Carpenter . . . . .	Poplar, California
Ralph Charles Coleman . . . . .	San Francisco, California
David Milton Coney . . . . .	San Francisco, California
Eugene Morris Dodson . . . . .	Paso Robles, California
Oscar Plank Fitch . . . . .	Placerville, California
James Garrett Fitzgibbon . . . . .	San Francisco, California
Arthur Morris Flood . . . . .	San Francisco, California
Arthur James Ford . . . . .	Taylorville, California
Reuben Lyon Hale . . . . .	Martinez, California
Eminel Potter Halsted . . . . .	San Francisco, California
John Ross Hardy . . . . .	Boston, Mass.
Charles Peter Hauselt . . . . .	San Francisco, California
Edward Shortridge Holloway . . . . .	College City, California
Joseph Arthur Jeffrey . . . . .	San Francisco, California
William Berridge Ludlow . . . . .	Oakland, California
Frances Asbury McCan . . . . .	Stockton, California
Amiel Morris . . . . .	Woodland, California
Robert Emmett O'Connell . . . . .	San Francisco, California
Clarence Hubert Pearce . . . . .	Watsonville, California
Robert Henry Porterfield . . . . .	San Francisco, California
Fred Earl Sawyer . . . . .	San Rafael, California
Leo Sichel . . . . .	San Francisco, California
Walter E. Singleton . . . . .	San Francisco, California
Robert Washington Smith . . . . .	San Francisco, California
Harley Howard Stephenson . . . . .	Sacramento, California
Edward Lord Strain . . . . .	San Francisco, California
Arthur Livingston Tibbitts . . . . .	Petaluma, California
Newton Booth Wachhorst . . . . .	San Francisco, California
Edwin Ruthven Waterman . . . . .	San Francisco, California
Frederick Heilbron White* . . . . .	San Francisco, California

**1895-96.**

William Henry Abbay . . . . .	Oakland, California
Henry Abraham . . . . .	San Francisco, California
George Abrams . . . . .	Willows, California
Marilda Jane Ayers . . . . .	San Francisco, California
Frederick Guernsey Baird . . . . .	San Francisco, California

\* Deceased.

Mary Louise Baird . . . . .	San Francisco, California
Bertram Carl Boeseke . . . . .	Santa Barbara, California
Franklin Calvin Bonnel . . . . .	Hollister, California
Charles Harold Bowman . . . . .	San Francisco, California
Albert Cafferata . . . . .	San Francisco, California
Paul Tulane Carrington . . . . .	Bangkok, Siam
Harry George Chappel . . . . .	San Jose, California
William Nathan Clark . . . . .	Watsonville, California
Frank Herman Cranz . . . . .	San Francisco, California
Jacob Cohn . . . . .	Boise City, Idaho
Stephen Joseph Cunningham . . . . .	San Francisco, California
William Edward Davis . . . . .	San Francisco, California
James Morton Forrest, Jr. . . . .	Los Gatos, California
Arthur A Fowler . . . . .	San Jose, California
H. Edward Gedge . . . . .	San Francisco, California
Amy Maxted Gilbert* . . . . .	San Francisco, California
Charles Daniels Gilman . . . . .	Oakland, California
Lawrence Greenbaum . . . . .	San Francisco, California
Richard Geo. Cornelius Harms . . . . .	Oakland, California
Charles Edwin Hart . . . . .	Pacific Grove, California
Arthur Philip Harth . . . . .	Grant's Pass, Oregon
George Morgan Harris . . . . .	Oakland, California
Alexander Hamilton Hawley . . . . .	Sacramento, California
George Henry Haynes . . . . .	Victoria, B. C.
Samuel William Hilliard . . . . .	San Francisco, California
Guy Brown Husted . . . . .	Saratoga, California
Konrad Magnus Lundborg . . . . .	San Francisco, California
Stephen Cholmeley Maynard . . . . .	San Jose, California
Naoma Gae MacDonald . . . . .	San Francisco, California
Robert B. McNutt . . . . .	San Francisco, California
Thomas Snelling Morden . . . . .	Boise City, Idaho
Fred Gustave Pless . . . . .	San Francisco, California
Charles Bruce Porter, Jr. . . . .	San Francisco, California
Joseph Ignatius Richards . . . . .	San Francisco, California
Leon Joseph Roth . . . . .	Los Angeles, California
Anna Martin Sawyer . . . . .	San Francisco, California
John Herbert Seager, A.B. . . . .	San Francisco, California
Frank Joseph Smith . . . . .	San Jose, California
George Edward Stallman . . . . .	San Francisco, California
Benjamin Mitchell Stich . . . . .	San Francisco, California
Montgomery Thomas . . . . .	Fresno, California
Oscar Tobriner . . . . .	San Francisco, California
Clifford Todd . . . . .	Sacramento, California
William Henry Ware . . . . .	San Francisco, California
Lauren David Webster . . . . .	San Jose, California
Clyde Allen Weldon . . . . .	Sacramento, California
Edward William Westphal . . . . .	San Francisco, California

\* Registered "Rowland."

1896-97.

Julian Woods Ashley . . . . .	San Francisco, California
Benjamin Avery Bosqui . . . . .	San Francisco, California
Edwin Andrews Clay . . . . .	San Buenaventura, California
Charles Alfred Coffin . . . . .	Reno Nevada
Orville Mirtland Colburn . . . . .	Woodland, California
Asa Weston Collins . . . . .	Oakland, California
Medora Vaux Croall . . . . .	San Francisco, California
Stephen Russell Cushing . . . . .	San Jose, California
George Samuel Donnelley . . . . .	San Francisco, California
Judge Haley Durham . . . . .	Irvington, California
Edward Sewell Fiske . . . . .	San Francisco, California
Howard West French . . . . .	Oakland, California
Ray Edson Gilson . . . . .	Oakland, California
Herman Peirce Hanson . . . . .	San Jose, California
Frederic William Harnden . . . . .	San Francisco, California
William Merced Herrington . . . . .	Fresno, California
Theodore Shelton Higgins . . . . .	San Francisco, California
William Robin Holladay . . . . .	Los Angeles, California
Walter Renwick Hughes . . . . .	Fresno, California
Charles Fitz-Howard Jarvis . . . . .	Oakland, California
Frank D. Johnson . . . . .	Chico, California
Paul Clinton Jones . . . . .	San Francisco, California
Edmond Douglas Keeffe . . . . .	San Francisco, California
Louis Joseph Kerwin . . . . .	Westside, California
Clair Cutting Marckres . . . . .	San Jose, California
Charles Joseph McCarthy . . . . .	Napa, California
Milton McMurray . . . . .	Crescent City, California
Julius Ira Morris . . . . .	Los Angeles, California
James Arthur Plunkett . . . . .	Oakland, California
Thomas Hopkins Quirk . . . . .	Virginia City, Nevada
George Washington Raymond . . . . .	San Francisco, California
Harry Clendenin Reynolds . . . . .	Upper Lake, California
Frank Oniska Robinson . . . . .	Petaluma, California
Helen May Rulison . . . . .	San Francisco, California
Edward Weld Russell . . . . .	Martinez, California
Fannie Elsie Scott . . . . .	Oakland, California
Edwin Matthew Stealey . . . . .	San Francisco, California
Henry Stiles . . . . .	San Jose, California
Charles Maurice Sumner . . . . .	San Jose, California
George Henry Tomkins . . . . .	San Francisco, California
Edward Albright Upton . . . . .	Oakland, California
Martin Wachs . . . . .	Oakland, California
Thomas Rattray Wheeler . . . . .	Concord, Mass.

N. B.—Graduates are requested to forward their correct addresses to the Dean.

## COMMENCEMENT, 1896-97.

---

The Fifteenth Commencement Exercises of the College of Dentistry of the University of California were held at Odd Fellows Hall, San Francisco, Thursday, June 16, 1897, at 8 o'clock P.M.

### ORDER OF EXERCISES.

MARCH, "El Capitan," . . . . . *Sousa*

OVERTURE, "Poet and Peasant," . . . . . *Von Suppe*

PRAYER, . . . . . REV. W. W. BOLTON, A.M.

SELECTION, "Musical Jokes," . . . . . *Hamm*

ADDRESS ON BEHALF OF THE FACULTY,  
ALLEN H. SUGGETT, B.S., D.D.S., '93.

POTPOURRI, "Robin Hood," . . . . . *De Koven*

CONFERRING DEGREES OF DOCTOR OF DENTAL SURGERY,  
MARTIN KELLOGG, A.M., LL.D., President of the University.

CONCERT WALTZES, "Tales from Vienna Woods," . . . . . *Strauss*

BENEDICTION . . . . . REV. W. W. BOLTON, A.M.

# THE ALUMNI ASSOCIATION

OF THE

COLLEGE OF DENTISTRY, UNIVERSITY OF CALIFORNIA.

---

The objects of this Society are to sustain and advance the prosperity of our ALMA MATER, by cultivating a fraternal feeling among the Alumni, by aiding in all efforts to elevate the standard of Dental Education, and extending the progress of Dental Science and Art.

At the last annual meeting the following resolution was adopted:—

*Resolved*, That all graduates that have not allied themselves with this Association, and the Class of '96, be invited to affiliate at the coming midsummer meeting, without the cost of an admission fee.

*Two Meetings* are held yearly: one on the evening of the annual College Commencement (followed by the annual Alumni banquet), and the other during the mid-term of the College, subject to the call of the Executive Committee.

The following officers have been elected for the current year:—

PRESIDENT . . . HARRY GRIFFIN RICHARDS, D.D.S.  
VICE-PRESIDENT . . . . GEO. N. VAN ORDEN, D.D.S.  
REC. SECRETARY . . . . . H. D. NOBLE, D.D.S.  
COR. SECRETARY . . CONRAD DEICHMILLER, D.D.S.  
TREASURER . . . . . P. C. ERHARDT, D.D.S.

## EXECUTIVE COMMITTEE.

C. A. LITTON, D.D.S.                      H. L. SEAGER, D.D.S.  
G. F. GRAHAM, D.D.S.                    S. R. JACOBS, D.D.S.  
   H. E. GEDGE, D.D.S.

All Alumni are urgently requested to identify themselves with the Association, and to assist in promoting its welfare and advancing its objects.



# UNIVERSITY OF CALIFORNIA.

## MEDICAL DEPARTMENT.

### FACULTY.

- MARTIN KELLOGG, A.M., LL.D., President of the University, and *ex-officio* President of the Faculty.
- G. E. SHURTLEFF, M.D., Emeritus Professor of Mental Diseases and Medical Jurisprudence.
- R. BEVERLY COLE, A.M., M.D., M.R.C.S. (Eng.), Professor of Obstetrics and Gynecology.
- W. F. McNUTT, M.D., M.R.C.P. (Edin.), etc., Professor of Principles and Practice of Medicine.
- ROBERT A. McLEAN, M.D., Professor of Clinical and Operative Surgery, Dean.
- W. E. TAYLOR, M.D., Professor of Principles and Practice of Surgery.
- A. L. LENGFELD, M.D., Professor of Materia Medica and Medical Chemistry.
- BENJ. R. SWAN, M.D., Professor of Diseases of Children.
- GEORGE H. POWERS, A.M., M.D., Professor of Ophthalmology and Otology.
- WM. WATT KERR, A.M., M.B., C.M., Professor of Clinical Medicine.
- ARNOLD A. D'ANCONA, A.B., M.D., Professor of Physiology.
- DOUGLASS W. MONTGOMERY, M.D., Professor of Diseases of the Skin.
- WASHINGTON DODGE, M.D., Professor of Therapeutics.
- JOHN M. WILLIAMSON, M.D., Professor of Anatomy.
- JOHN W. ROBERTSON, A.B., M.D., Professor of Nervous and Mental Diseases.
- JOHN C. SPENCER, A.B., M.D., Professor of Pathology and Histology.
- W. E. HOPKINS, M.D., Associate Professor of Ophthalmology and Otology.
- GEO. F. SHIELS, M.D., F.R.C.S.E., Associate Professor of Principles and Practice of Surgery.
- CHAS. A. VON HOFFMANN, M.D., Associate Professor of Gynecology.
- WM. B. LEWITT, M.D., Associate Professor of Diseases of Children.
- F. T. GREEN, Ph.G., Associate Professor of Medical Chemistry.
- J. HENRY BARBAT, Ph.G., M.D., Adjunct to the Chair of Anatomy.
- WM. J. HAWKINS, M.D., Adjunct to the Chair of Physiology.
- RICHARD M. H. BERNDT, M.D., Adjunct to the Chair of Therapeutics.
- JAMES F. McCONE, B.S., M.D., Assistant to the Chair of Obstetrics.
- HUGH LAGAN, M.D., Assistant to the Chair of Clinical Medicine.
- THOMAS B. W. LELAND, M.D., Assistant to the Chair of Physiology.
- WILLIAM G. HAY, M.D., Assistant to the Chair of Diseases of the Skin.
- SAM. P. TUGGLE, M.D., Demonstrator of Anatomy.
- S. J. FRASER, A.B., M.D., Senior Assistant Demonstrator of Anatomy.

EDWIN BUNNELL, A.B., M.D., Junior Assistant Demonstrator of Anatomy.

THOMAS A. McCULLOCH, M.D., Junior Assistant Demonstrator of Anatomy.

LOUIS D. BACIGALUPI, M.D., Junior Assistant Demonstrator of Anatomy.

---

COLLEGE DISPENSARY STAFF.

*Medicine —*

H. D. ROBERTSON, M.D.

T. B. W. LELAND, M.D.

GIUDO E. CAGLIERI, M.D.

*Surgery —*

JOHN M. WILLIAMSON, M.D.

A. K. HAPPERSBERG, M.D.

H. B. A. KUGELER, M.D.

CECIL M. ARMISTEAD, M.D.

WM. M. S. BEEDE, M.D.

*Ophthalmology and Otology —*

GEO. H. POWERS, M.D.

GEO. W. MERRITT, M.D.

JOS. P. HULL, M.D.

HUGH LAGAN, M.D.

HENRY W. STIREWALT, M.D.

JOHN J. FLOOD, M.D.

*Gynecology —*

R. BEVERLY COLE, M.D.

CHAS. A. von HOFFMANN, M.D.

JAS. C. McCONE, M.D.

*Cutaneous and Venereal Diseases —*

DOUGLASS W. MONTGOMERY, M.D.

WM. G. HAY, M.D.

ALFRED M. GROSSE, M.D.

THOS. A. McCULLOCH, M.D.

*Orthopedic Surgery —*

HARRY M. SHERMAN, M.D.

HENRY DU R. PHELAN, M.D.

*Nervous Diseases —*

LEO NEWMARK, M.D.

---

The session begins September 1st and continues eight calendar months.

Graduates of Dental Colleges in good standing are admitted to the third year class upon passing a satisfactory examination in the curriculum of the second year.

The course extends over four years of medical study. Graduates of recognized literary and scientific colleges are admitted to the second-year class without examination.

ROBERT A. McLEAN, Dean,

305 Kearny Street, San Francisco, Cal.

# UNIVERSITY OF CALIFORNIA.

---

## DEPARTMENT OF PHARMACY.

---

### CALIFORNIA COLLEGE OF PHARMACY.

#### FACULTY.

MARTIN KELLOGG, A.M., LL.D., President of the University and  
*ex-officio* President of the Faculty.

HERRMANN H. BEHR, M.D., Emeritus Professor of Botany.

WILLIAM T. WENZELL, M.D., Ph.D., Ph.M., Professor of Chemistry.

J. J. B. ARGENTI, Ph.G., Professor of Botany, Vegetable Histology,  
and Pharmacognosy.

WILLIAM M. SEARBY, Ph. C., Professor of Pharmacy and Materia  
Medica, and Dean.

F. T. GREEN, Ph. G., Professor of Analytical and Pharmaceutical  
Chemistry.

ROBERT A. LEET, Ph.G., Instructor in Chemistry.

————— Instructor in Pharmacy.

OTTO A. WEIHE, Ph. G., Instructor in Materia Medica.

H. M. MCTUEEN, Ph. G., Instructor in Microscopy.

---

The College is equipped with every requisite for teaching the various  
branches pertaining to Pharmacy, including Materia Medica Museum,  
Analytical, Pharmaceutical, and Microscopical Laboratories.

The requirements for admission are as follows :—

1. Applicants for admission must be at least eighteen years of age,  
except in the case of graduates of High Schools of this State, who are  
admitted irrespective of age. (While it is advisable that students shall  
have one or two years practical training in a drugstore before entering  
the College, this is not compulsory.)

2. Applicants will be accepted who bring any of the following  
credentials:—

(a) Certificates of graduation from High Schools of this State.

(b) Diplomas of graduation from schools or academies accredited  
by the State University. (See Register of the University of California,  
1894, page 39.)

(c) Certificates of high standing in other institutions of the col-  
legiate grade.

- (d) Diplomas from Normal Schools of this State.
- (e) First grade teachers' certificates of this State.
- (f) Certificates of having completed satisfactorily the first year's course in High Schools of this State.

3. Applicants who do not present any of the foregoing credentials will be examined in the following branches:—

(a) English.—They will be required to show their ability in spelling, punctuating, use of capitals, grammatical construction, and correctness of expression. (The handwriting will be estimated, and form a part of this examination.)

(b) Geography.—American and General.

(c) Free-hand Drawing.

(d) Arithmetic: Fundamental rules; fractions, common and decimal; denominate numbers; percentage; proportion.

(e) Algebra: Fundamental rules; fractions; equations of the first degree, consisting of two or more unknown quantities.

(f) Latin: Rudiments; declensions of nouns, pronouns, adjectives; conjugations of verbs; translation of simple sentences from Latin to English, and English to Latin.

Applicants who fail to obtain the required percentage in free-hand drawing and Latin may be entered conditionally, but will be required to pass the examinations satisfactorily in these studies at the close of the Junior Lecture Course.

The curriculum consists of two courses, of six months each. The next term will commence November 1st.

Lectures and Demonstrations are delivered in Chemistry, Botany, Materia Medica, Microscopy, and Pharmacy. The Laboratories are under charge of Professors Green, Searby, Argenti, and assistants.

In every respect, this College keeps abreast of the leading Colleges of Pharmacy in the country, adopting the most approved methods of teaching, and keeping pace with the rapid advances of pharmaceutical science

---

For prospectus, terms, and further information, address

W. M. SEARBY,

*Dean of the Faculty.*

400 Sutter Street, San Francisco.

# SAN FRANCISCO POLYCLINIC:

POST-GRADUATE MEDICAL DEPARTMENT OF THE

## UNIVERSITY OF CALIFORNIA.

---

A SCHOOL OF CLINICAL MEDICINE FOR GRADUATES OF COLLEGES  
OF REGULAR MEDICINE.

---

MARTIN KELLOGG, A.M., LL.D., President of the University.

---

LOUIS BAZET, M.D., Professor of Genito-Urinary Surgery.  
FRED W. D'EVELYN, M.B., C.M. (Edin.), Professor of Pediatrics.  
C. A. VON HOFFMANN, M.D., Professor of Gynecology and Obstetrics.  
HENRY KREUTZMANN, M.D., Professor of Gynecology and Obstetrics.  
MARTIN REGENSBURGER, M.D., Professor of Venereal Diseases and Dermatology.  
GEORGE F. SHIELS, M.D., C.M. (Edin.), F.R.C.S.E., Professor of Surgery.  
HENRY L. WAGNER, M.D., Ph.D., Professor of Rhinology and Laryngology.  
W. E. HOPKINS, M.D., Professor of Ophthalmology.  
W. A. MARTIN, M.D., Professor of Ophthalmology.  
LUKE ROBINSON, M.D., M.R.C.P. (Lond.), Professor of Gynecology.  
W. H. MAYS, M.D., Professor of Gynecology.  
LEO NEWMARK, M.D., Professor of Neurology.  
WASHINGTON DODGE, M.D., Professor of Medicine.  
BEVERLY MacMONAGLE, M.D., Professor of Gynecology.

There is an ample supply of clinical material from the large number of cases attending the free clinics of the Polyclinic. Clinics are also held at the following hospitals: St. Mary's Hospital, in Gynecology; City and County Hospital, in Surgery, Genito-Urinary Surgery, Gynecology, and Ophthalmology; the Children's Hospital, in Ophthalmology; St. Luke's Hospital, in Gynecology.

Tickets are sold for six weeks' courses in any of the classes. These courses may begin at any time.

**Bacteriology.**—The laboratory is now open to students.

Special arrangements may be made for courses in operation and technical work in any of the classes to meet the needs of students,

**New Building.**—The Polyclinic now occupies its own building, designed especially for its work. It contains a large lecture-room, seven clinic-rooms, drugstore, waiting-rooms, reading rooms, and a Laboratory completely equipped for Bacteriological Studies.

For more specific information, address

SECRETARY SAN FRANCISCO POLYCLINIC,

410 ELLIS STREET, SAN FRANCISCO



# UNIVERSITY OF CALIFORNIA.

---

## VETERINARY DEPARTMENT.

---

### FACULTY.

- W. F. EGAN, M.R.C.V.S., Professor of Principles and Practice of Veterinary Surgery and Equine Medicine.
- ROBERT DARLING, D.V.S., Lectures on Comparative Anatomy.
- E. GOODMAN, M.D., Ph.G., Lectures on Chemistry and Toxicology.
- S. J. FRASER, B.A., M.D., Professor of Physiology and Histology.
- FRANK W. SKAIFE, D.V.S., M.R.C.V.S., Professor of Helminthology, Canine Medicine and Surgery, and Dermatology.
- K. O. STEERS, V.S., Professor of Therapeutics and Botany.
- THOMAS MACLAY, M.R.C.V.S., Professor of Bovine Medicine and Obstetrics, and Veterinary Sanitary Science.
- HENRY B. A. KUGELER, M.D., Lecturer on Pathology and Bacteriology.
- 

### Special Lecturers.

- PROF. W. F. McNUTT, M.D., L.R.C.S., L.R.C.P. (Edin.), Professor of the Principles and Practice of Medicine, University of California.
- PROF. WILLIAM WATT KERR, M.A., M.D. (Edin.), Professor of Clinical Medicine, University of California.
- PROF. JOSEPH LE CONTE, A.M., M.D., LL.D., Professor of Geology and Natural History, University of California.
- PROF. W. RITTER, M.A., Assistant Professor of Biology, University of California.
- 

### DEAN.

F. W. SKAIFE, D.V.S., M.R.C.V.S., 30 Cedar Avenue.

### SECRETARY.

K. O. STEERS, V.S., 30 Cedar Avenue.

### HOUSE SURGEONS.

ROBERT DARLING, D.V.S., Horses, Cattle, etc.  
F. W. SKAIFE, D.V.S., M.R.C.V.S., Dogs, etc.

---

### COURSE OF STUDY.

The curriculum of this College comprises the fundamental sciences, and covers a period of three winter sessions, of over six months each, commencing on the first day of October of each year, and extending to the end of March of the following year. The theoretical instruction will

be by didactic lectures, class demonstrations and recitations. The facilities for instruction are equal to any in this country, and the courses extend from the first elements of Medicine to the latest researches in Veterinary Science at home and abroad. The student will be trained under the special guidance of Professors in all the practical and technical details of the profession. The following are the studies:—

*First Year*—Chemistry and Materia Medica.

Elements of Physiology and Histology.

Anatomy.

Dissection.

Botany.

*Second Year*—Physiology and Comparative Physiology.

Anatomy of the Domesticated Animals and Comparative Anatomy.

Principles and Practice of Veterinary Surgery.

Principles and Practice of Equine Medicine.

Principles and Practice of Bovine Medicine.

Materia Medica.

Analytical and Organic Chemistry.

Toxicology.

Dissection.

Clinical Instruction.

Therapeutics.

*Third Year*—Principles and Practice of Veterinary Surgery.

Principles and Practice of Equine Medicine and Dermatology.

Principles and Practice of Bovine Medicine.

Principles and Practice of Canine Medicine and Helminthology.

Veterinary Obstetrics.

Bacteriology.

Pathological Anatomy.

Veterinary Hygiene.

Clinical Instruction.

Therapeutics.

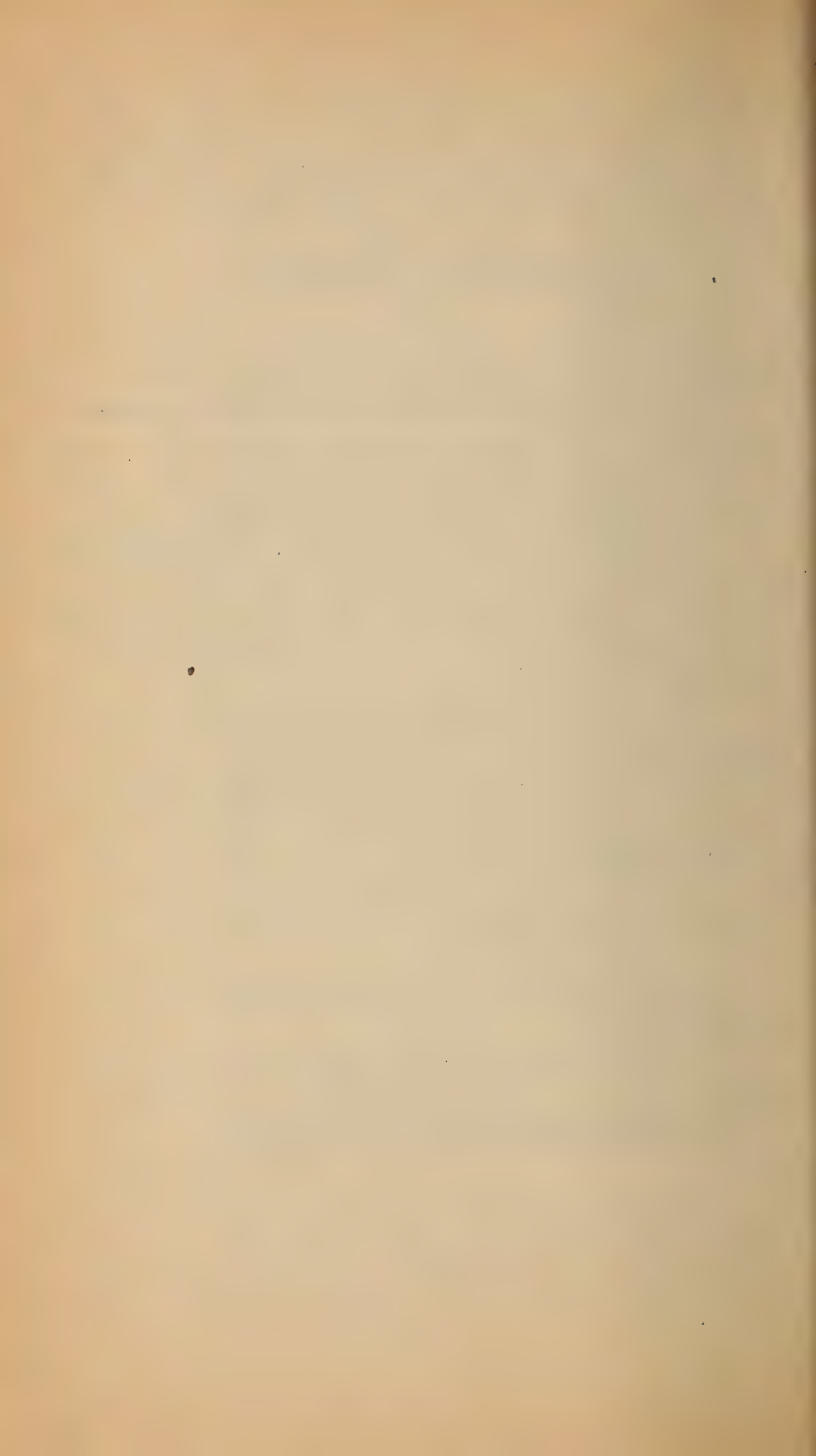
Lectures on special subjects will be delivered from time to time throughout the session.

The second and third year students, besides attending the clinics, must serve as aids in the Hospital, and the third year they will be placed in charge of sick animals, and required to make autopsies.

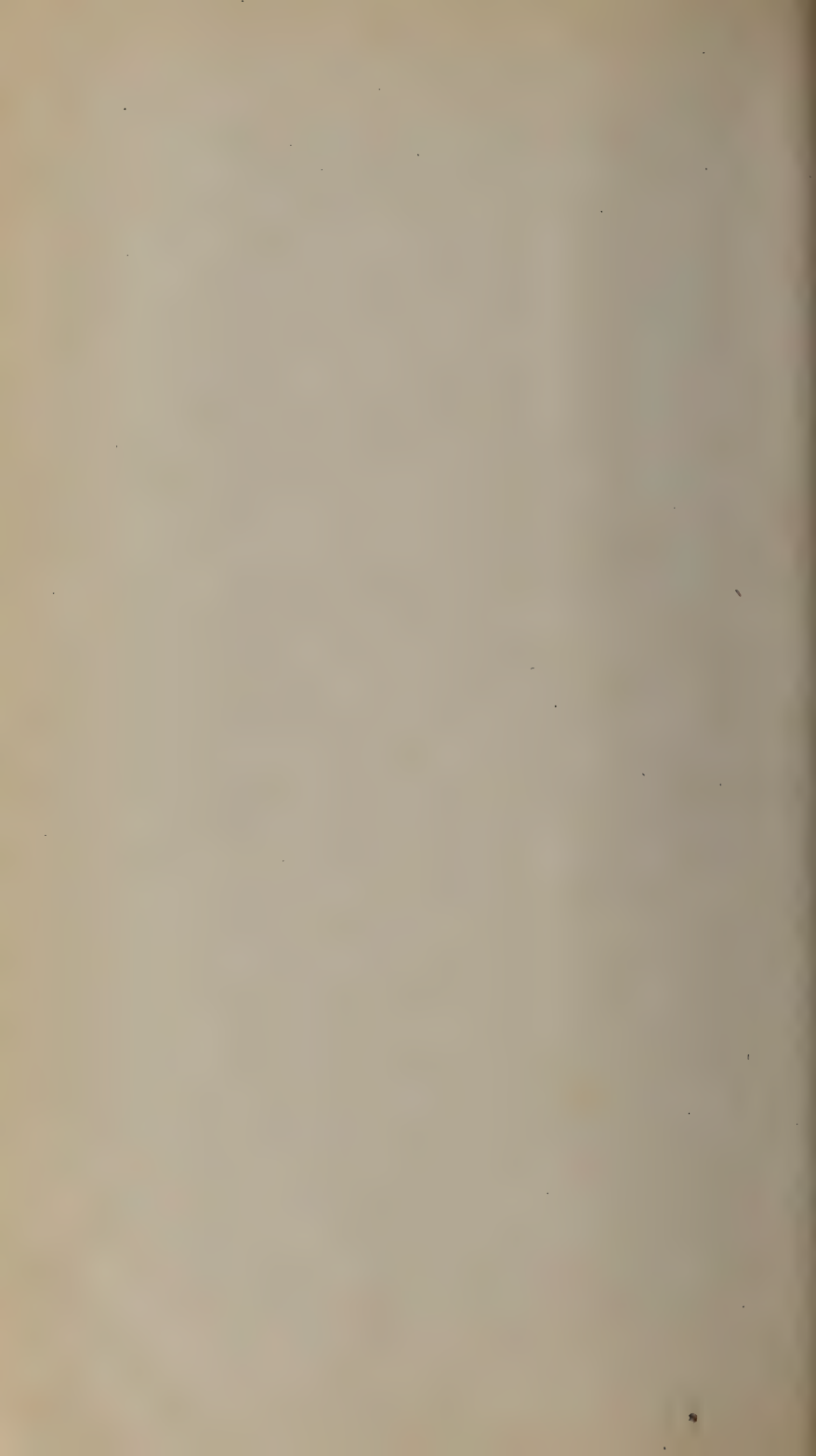
For prospectus, terms, and further information, address

F. W. SKAIFE, Dean,  
30 Cedar Avenue.

THE LIBRARY OF THE  
FEB 26 1931  
UNIVERSITY OF ILLINOIS.









99 *H. B. Lemmitt, M. D.*

# COLLEGE OF DENTISTRY

OF THE

UNIVERSITY OF CALIFORNIA

THE LIBRARY OF THE  
FEB 26 1931  
UNIVERSITY OF CALIFORNIA



COR. MARKET AND TAYLOR STREETS

## SEVENTEENTH SESSION

Commencing Monday Sept. 5, 1898, and Ending May '31, 1899

## CALENDAR FOR 1898-99

Friday and Saturday, September 2 <sup>n</sup> 1 and 3 <sup>d</sup>	}	Preliminary Examination
Monday, August 22 <sup>nd</sup> to Saturday, August 27 <sup>th</sup>	}	Examination for Conditions
Monday, September 5 <sup>th</sup> .....		Beginning of Term
Friday, September 9 <sup>th</sup> .....		Holiday (Admission Day)
Thursday, November 24 <sup>th</sup> Saturday, November 26 <sup>th</sup>	}	Thanksgiving Recess
Monday, December 19 <sup>th</sup> Saturday, January 7 <sup>th</sup> , 1899	}	Christmas Vacation (three weeks)
Wednesday, February 22, 1899.....		Holiday (Washington's Birthday)
Thursday, March 23 <sup>d</sup> .....		Charter Day (University of California)
April 4 <sup>th</sup> to April 27 <sup>th</sup> .....		Senior Examination in Infirmary
May 8 <sup>th</sup> to May 13 <sup>th</sup> .....		Senior Examinations
May 22 <sup>nd</sup> to May 27 <sup>th</sup> .....		Junior and Freshman Examinations
May 31 <sup>st</sup> .....		End of Term
Thursday, May 18 <sup>th</sup> .....		Commencement
June 1 <sup>st</sup> to August 19 <sup>th</sup>	{	Practical Course for Junior and Freshman Students
August 18 <sup>th</sup> and 19 <sup>th</sup> , 1899.....		Preliminary Examination
August 21 <sup>st</sup> , 1899.....		Beginning of Session of 1899 and 1900

# ANNOUNCEMENT

OF THE

## COLLEGE OF DENTISTRY

OF THE

UNIVERSITY OF CALIFORNIA

THE LIBRARY OF THE

FEB 26 1931

UNIVERSITY OF ILLINOIS.

FOR ITS

### SEVENTEENTH SESSION

COMMENCING SEPTEMBER 5, 1898, AND ENDING MAY 31, 1899

---

*N. B—Those who wish to receive the Announcement are requested to forward their Names and Addresses to the Dean.*

SAN FRANCISCO  
WALTER N. BRUNT, PRINTER  
1898

# UNIVERSITY OF CALIFORNIA.

---

## OFFICE DIRECTORY.

---

### IN BERKELEY.

The office of the PRESIDENT is Room No. 20, *North Hall*.

The office of the RECORDER is Room No. 10, *North Hall*.

The office of the SECRETARY and office of the BOARD OF REGENTS is in *South Hall*.

The office of the LAND AGENT is in *South Hall*.

---

### AT MT. HAMILTON.

The address of the DIRECTOR OF THE LICK OBSERVATORY is Lick Observatory, Mt. Hamilton, Santa Clara County, California.

---

### IN SAN FRANCISCO.

The office of the REGISTRAR OF THE COLLEGE OF LAW is No. 817 Market Street, Room 629, Parrott Building.

Lectures in the COLLEGE OF LAW are delivered in the Assembly Room of the Society of Pioneers, No. 808 Montgomery Street.

The office of the DEAN OF THE MEDICAL FACULTY is No. 305 Kearny Street.

The COLLEGE OF MEDICINE is situated south of the east end of Golden Gate Park.

The Medical and Surgical Clinics of the COLLEGE OF MEDICINE are held at the City and County Hospital, Twenty-second Street and Potrero Avenue.

The Dispensary Clinics of the COLLEGE OF MEDICINE are held at 155 New Montgomery Street.

The office of the DEAN OF THE DENTAL FACULTY is No. 606 Sutter Street.

Lectures in the COLLEGE OF DENTISTRY are delivered in the College Building, No. 18 Taylor Street, corner of Market.

The office of the DEAN OF THE COLLEGE OF PHARMACY is No. 400 Sutter Street.

The COLLEGE OF PHARMACY is situated at No. 113 Fulton Street, between Polk Street and Van Ness Avenue.

The Veterinary Department is situated at the corner of Post and Fillmore Streets. Office of the Dean, 18 Cedar Avenue.

The office of the BOARD OF REGENTS is in the Hopkins Art Building, corner of Mason and California Streets.

The office of the TREASURER OF THE BOARD OF REGENTS is No. 310 Sansome Street.



# UNIVERSITY OF CALIFORNIA.

## BOARD OF REGENTS.

### EX-OFFICIO REGENTS.

HIS EXCELLENCY JAMES H. BUDD.....	Sacramento
<i>Governor, ex officio President of the Board.</i>	
HIS HONOR WILLIAM T. JETER.....	Santa Cruz
<i>Lieutenant-Governor.</i>	
HON. FRANK L. COOMBS.....	Napa
<i>Speaker of the Assembly.</i>	
HON. SAMUEL T. BLACK.....	Sacramento
<i>State Superintendent of Public Instruction.</i>	
HON. ADOLPH SPRECKELS.....	San Francisco
<i>President of the State Agricultural Society.</i>	
E. A. DENICKE, Esq.....	San Francisco
<i>President of the Mechanics' Institute.</i>	
MARTIN KELLOGG, A. M., LL. D.....	Berkeley
<i>President of the University.</i>	

### APPOINTED REGENTS.\*

NAME	ADDRESS	TERM EXPIRES
CHARLES W. SLACK.....	309 Montgomery Block, S. F.....	1910
HON. J. WEST MARTIN.....	Union Savings Bank, Oakland.....	1914
ANDREW S. HALLIDIE, ESQ.....	33 Market St., S. F.....	1908
HON. WILLIAM T. WALLACE.....	799 Van Ness Ave., S. F.....	1902
JAMES A. WAYMIRE.....	Alameda.....	1908
J. F. HOUGHTON, ESQ.....	223 Mission St., S. F.....	1904
HON. TIMOTHY GUY PHELPS.....	San Carlos.....	1912
ISAIAS WILLIAM HELLMAN, ESQ.....	Nevada Bank, S. F.....	1902
HON. JAMES D. PHELAN.....	S.W. Cor. Valencia and 17th streets, S. F.....	1914
ARTHUR RODGERS, B.S., LL.B.....	309 Montgomery St., S. F.....	1906
HON. HENRY S. FOOTE.....	U. S. Appraisers' Bldg., S. F.....	1900
ALBERT MILLER, ESQ.....	532 California St., S. F.....	1906
CHESTER ROWELL, M. D.....	Fresno.....	1910
JACOB BERT REINSTEIN, A.M.....	217 Sansome St., S. F.....	1912
JOHN E. BUDD.....	Stockton.....	1900
MRS. PHEBE A. HEARST.....	Mills Building, S. F.....	1904
E. W. DAVIS, B. L., Secretary.....		Berkeley.

Regular meetings of the Board of Regents are held thirteen times a year, viz : In San Francisco, on the second Tuesday of each month; in Berkeley, on the day preceding Commencement in the College of Letters and the Colleges of Science.

\*In the order of original appointment.



# UNIVERSITY OF CALIFORNIA.

---

## COLLEGE OF DENTISTRY.

---

DONOHUE BUILDING, CORNER OF MARKET AND TAYLOR STREETS,  
SAN FRANCISCO.

---

### FACULTY.

- MARTIN KELLOGG, A. M., LL. D., President of the University, and  
*ex-officio* President of the Faculty.  
JOSEPH LECONTE, M. D., LL. D., Honorary Professor of Biology.  
W. E. TAYLOR, M. D., Emeritus Professor of Surgery.  
C. L. GODDARD, A. M., D. D. S., Professor of Orthodontia.  
L. L. DUNBAR, D. D. S., Dean, and Professor of Operative Dentistry  
and Dental Histology.  
MAURICE J. SULLIVAN, D. D. S., Professor of Dental Pathology  
Therapeutics, and Materia Medica.  
WILLIAM B. LEWITT, M. D., Professor of the Principles and Practice  
of Surgery.  
A. L. LENGFELD, M. D., Professor of Chemistry and Metallurgy.  
A. A. D'ANCONA, A. B., M. D., Professor of Physiology and Histology.  
J. M. WILLIAMSON, M. D., Professor of Anatomy.
- 

### LECTURERS, DEMONSTRATORS AND ASSISTANTS.

- W. F. SHARP, D. D. S., D. M. D., Lecturer on Mechanical Dentistry.  
HARRY P. CARLTON, D. D. S., Lecturer on Operative Dentistry.  
H. R. WILEY, A. B., LL. B., Special Lecturer on Dental Jurisprudence.  
CHARLES A. LITTON, D. D. S., Superintendent of Infirmary.  
M. J. SULLIVAN, D. D. S., Instructor in Clinical Operative Dentistry.  
F. W. HARNDEN, D. D. S., Assistant in Operative Technic.  
BENJ. M. STICH, D. D. S., Demonstrator of Operative Dentistry.  
WM. M. HERRINGTON, D. D. S., Instructor in Clinical Mechanical  
Dentistry.  
CHAS. P. HAUSELT, D. D. S., Demonstrator of Mechanical Dentistry.  
OSCAR TOBRINER, M. D., D. D. S., Demonstrator of Operative  
Dentistry.  
J. D. HODGEN, D. D. S., Assistant in Chemistry and Metallurgy.  
H. D. NOBLE, D. D. S., Instructor in Orthodontia Technic.  
JAMES G. SHARP, M. D., D. D. S., Assistant to the Chair of Physiology  
and Histology.  
S. P. TUGGLE, M. D., Demonstrator of Anatomy.  
S. J. FRASER, A. B., M. D., Assistant Demonstrator of Anatomy.  
EDWIN BUNNELL, A. B., M. D., Junior Assistant Demonstrator of  
Anatomy.  
L. D. BACIGALUPI, M. D., Junior Assistant Demonstrator of Anatomy.

**JUNIOR ASSISTANTS.**

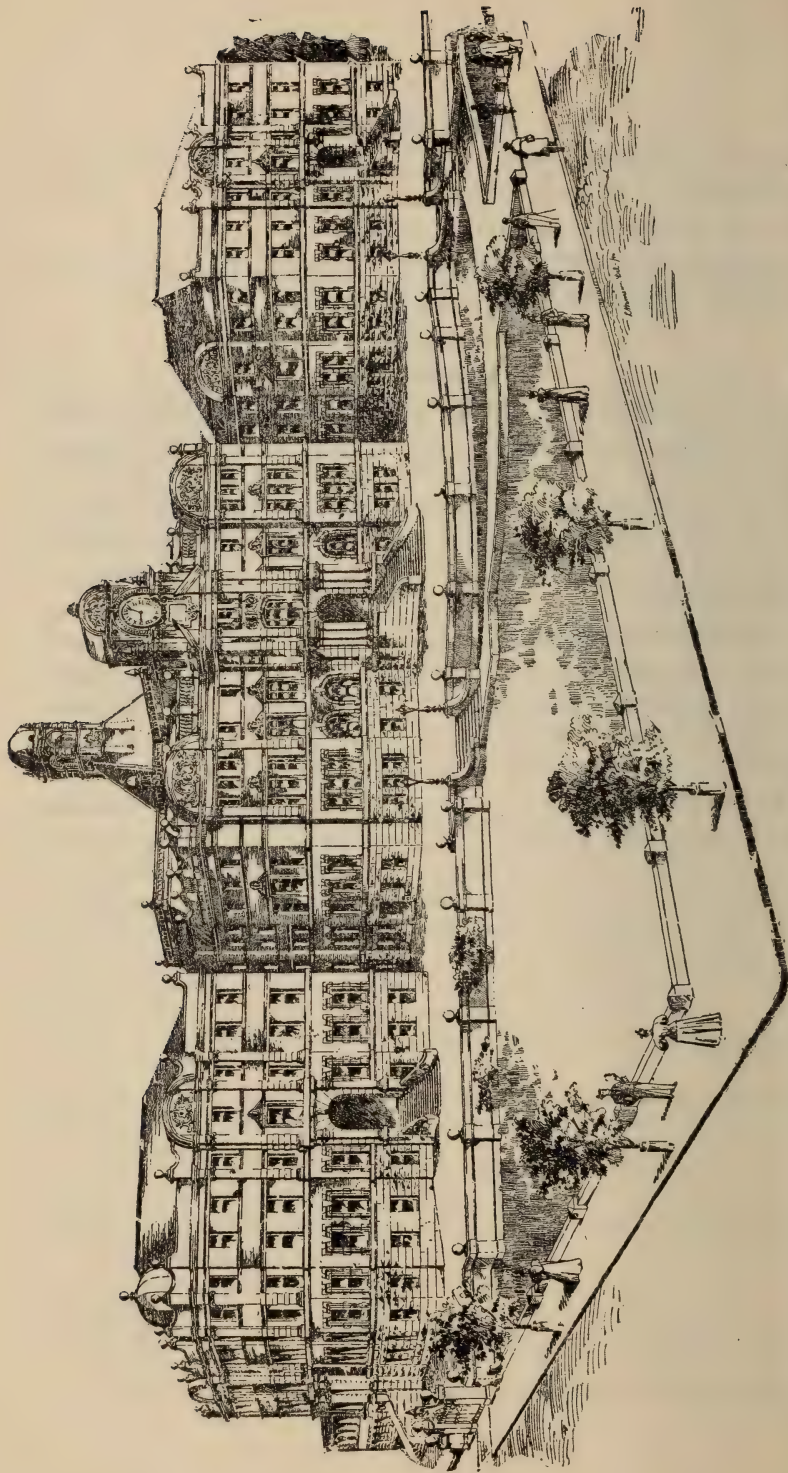
CHAS. H. BOWMAN, D.D.S.....	Assistant Demonstrator
BERTRAM C. BOESEKE, D.D.S.....	“ “
CHAS. B. PORTER, JR., D.D.S.....	“ “
EDMOND D. KEEFFE, D.D.S.....	“ “
JOSEPH A. JEFFREY, D.D.S.....	“ “

---

**CLINICAL STAFF.**

L. VAN ORDEN, M. D., D.D.S., Director of Clinics.....	San Francisco
R. F. GRAY, M. D., D.D.S.....	San Francisco
J. P. PARKER, D.D.S.....	Santa Cruz
F. L. PLATT, D.D.S.....	San Francisco
C. E. POST, D.D.S.....	San Francisco
W. E. PRICE, D.D.S.....	San Francisco
MAX SICHEL.....	San Francisco
A. H. SUGGETT, D.D.S.....	Marysville
E. L. TOWNSEND, D.D.S.....	Los Angeles
A. H. WALLACE, D.D.S.....	San Francisco
A. N. COPSEY, D.D.S.....	San Francisco
GEO. H. CHANCE, D.D.S.....	Portland, Or.
W. I. WILCOX, D.D.S.....	San Francisco
P. C. ERHARDT, D.D.S.....	San Francisco

L. L. DUNBAR, Dean,  
No. 606 Sutter Street, San Francisco.



DEPARTMENTS OF DENTISTRY, PHARMACY, MEDICINE AND LAW OF THE UNIVERSITY OF CALIFORNIA.

(Not completed.)



## ✧ SEVENTEENTH SESSION ✧

1898-1899

---

THE COLLEGE OF DENTISTRY OF THE UNIVERSITY OF CALIFORNIA begins its Seventeenth Session on Monday, September 5, 1898, with increased facilities in every department and under conditions more favorable than heretofore for a systematic training of students for the practice of dentistry in accordance with modern requirements. It easily stands in the front rank of technical schools, ever maintaining the standard for which its founders have striven, and has in no respect catered to that commercialism so prevalent in dental educational institutions, which has done more than anything else to degrade the profession, both at home and abroad.

It is a matter for congratulation that its graduates take rank with the foremost wherever they go, both in professional training and general culture, and its diploma is accorded recognition by Boards of Registration in most of the States of the Union as well as in many foreign countries.

The increased requirements of last term were met by a large attendance of thoroughly well-equipped matriculates of both sexes, most of whom were exempt from the entrance examination at its advanced standard.

The College at present occupies the entire upper floor and part of another in one of the largest buildings in the city, which, with its arrangement of rooms and general equipment, secures all that could be desired in any first-class dental college.

We present on the preceding page a perspective view of the new buildings now being erected by the State of California for the professional Colleges of the University, the corner-stone of which was laid Saturday, March 27, 1897, with imposing ceremonies. The munificence of the State in its appropriation of \$250,000 for the construction of buildings was aided by the generosity of the Hon. Adolph Sutro, who gave to the University a fraction over twenty-six acres of land beautifully situated south of Golden Gate Park, and commanding a view of the city

and vicinity, unsurpassed by any site elsewhere. Upon the westerly half of the property is being constructed this magnificent group of buildings, and upon the remainder, or eastern portion, will be erected the Sutro Library, also destined to become a part of the University.

This marks an era of University extension unequalled in the history of this favored State, and will secure to it a complete University. The desideratum in the professional schools now is the proper endowment of its special chairs by public-spirited citizens, so that the more important of these may be filled by the best instructors in their several specialties that can be obtained,—men of ripe scholarship and experience, untrammelled by the cares of active practice, who, by the aid of such endowment, may have opportunity for independent investigation and work, for the glory of the University and State. When this is accomplished, the *greater University* will be an established fact, and those who have passed lives of toil and self-denial as teachers and practitioners, often giving much of the financial results of practice in aid of their ideal, will not have labored in vain.

It is not improbable that the session of 1899-1900 will see the professional departments in full operation in their new home, all under the direction of the Board of Regents, and under conditions that will offer a course of instruction in the College of Dentistry that will challenge comparison anywhere.

In our present situation we have added very much to our course in manual training, and in recognition of the value of operative technic, as well as prosthetic technic, we have enlarged the Freshman curriculum in these departments, so as to furnish each student with graded instruction in practical manipulations under the eye of competent assistants, who are with them daily, and occupy all their time not taken up with lectures. The value of this plan cannot be estimated both for instruction and discipline.

Under the new arrangement, the Infirmary is separated entirely from the lecture and class rooms, so that students only come into contact with patients under direct assignment by the Superintendent. Elevators are provided for the exclusive use of each, that for patients of the Infirmary being on Market



Street, and for students at the Taylor Street entrance to the building.

The College building is admirably situated for convenient access, occupying a prominent corner upon the main thoroughfare of the city, contiguous to all lines of cars, direct or by transfer.

The supply of clinic material is very abundant, and during some seasons more than can be served. To the thirty chairs already in use we have added twenty-six more, making fifty-six in all, with accessory cabinets, brackets, etc.

A commodious Senior operating room is also provided for advanced students, in addition to the large operating rooms heretofore in use.

The dental laboratories are on the same floor, and consist of two—one for elementary instruction in Mechanical Technic, and the other for advanced students. These are thoroughly equipped with individual benches, provided with lockers, as well as the latest improved appliances for all kinds of prosthetic work.

Crown and bridge work is a prominent feature of the instruction in the Junior year, followed by advanced work in porcelain construction in the Senior year.

Orthodontia, both didactic and practical, including a course in Orthodontia Technic, is an important part of the curriculum, receiving the entire attention of a specialist in this branch of practice.

The course in Histology will be supplemented by a full laboratory course and practical work with the microscope. Special attention will be given to Section Cutting—both of hard and soft tissues. A suitable room is provided for this purpose, equipped with all the requisites for instruction, including fifteen superior microscopes.

The building is provided with abundant means of egress, in two wide stairways, two elevators, and two outside fire escapes on each side.

All the lectures of the Department will be delivered in the College lecture room, but the work in practical anatomy will be performed under the superintendence of the Demonstrator of Anatomy, at the College of Medicine of the University of California, where a commodious dissecting room is especially

provided for dental students, equipped with six glass-top tables where thirty students may be accommodated at one time.

The undergraduate departments of the University are clustered at Berkeley, while the professional colleges are, for convenience of clinical study, conducted wholly in San Francisco.

There are seven professors in the college, besides a corps of able and efficient special lecturers and demonstrators. The professors will lecture each week, according to schedule of instruction published in this announcement. Wednesday afternoon of each week will be set apart, as heretofore, for clinical instruction. The staff of clinical instructors is a large one and will be in charge of a Master of Clinics, who will arrange instructive services for each month during the term. It will also be the aim of the Faculty to supply the Freshman class with a more comprehensive course of technics than has ever been given in a dental school, supplemented by clinics by visiting dentists whenever possible.

The dental laboratories are furnished with benches, lathes, furnaces for melting, forge, rolling mill, continuous gum furnaces, and all other requisites for thorough work. Each student is required to furnish his own instruments and tools, and will be provided with a separate drawer, in which they can be securely locked. Those who have instruments and laboratory tools and appliances should bring them; those who have not, are advised to defer purchasing until they arrive. Lists of instruments and appliances requisite are designated elsewhere, copies of which will be furnished by the Superintendent. During the hours devoted to Operative or Mechanical Dentistry, competent demonstrators will be present to assist the students in their operations. The Superintendent of the Infirmary will receive and assign patients to the students, and will have general supervision of the Infirmary.

As per resolution of the National Association of Dental Faculties, this College requires an attendance upon three full regular courses in separate years before graduation.

This College also endorses the requirements of the National Association of Dental Examiners, and has pledged itself to maintain the standard established.

## SCHEDULE OF STUDY.

*Session of 1898-99—Term Commences September 5, 1898, and  
Closes May 31, 1899.*

### Order of Lectures and Clinics.

#### FRESHMAN YEAR.

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.
9 A. M. to 11 A. M.	LABORATORY.		LABORATORY.		
10 A. M. to 11 A. M.		LABORATORY.		Microscopic Technic, P'f. D'ANCONA	LECTURE, Physiology, Prof. D'ANCONA
11 A. M. to 12 M.	LECTURE, Anatomy, Prof. WILL'MSON	LECTURE, Osteology, Dr. FRAZER.		P'f. D'ANCONA	Lecture, Chemistry, Prof. LENGFELD
9 A. M. to 5 P. M.	TECHNIC, Dr. JEFFREY.	TECHNIC, Dr. BOWMAN.	TECHNIC, Dr. PORTER.	TECHNIC, Dr. BOESEKE.	TECHNIC, Dr. KEEFFE.
1 P. M. to 2 P. M.		Operative Technic, Dr. HARNDEN.	LABORATORY.	Operative Technic, Dr. HARNDEN.	LABORATORY.
2 P. M. to 4 P. M.	LABORATORY.	CHEMICAL LABORATORY Dr. HODGEN.		LABORATORY.	
4 P. M. to 5 P. M.	LECTURE, Mechanical Dentistry, Dr. W. F. SHARP				
SATURDAY, 9 A. M. TO 12 M.					
LABORATORY CLINICS OR SURGICAL CLINICS AT CITY AND COUNTY HOSPITAL.					

# ORDER OF LECTURES AND CLINICS—*Continued.*

## JUNIOR YEAR.

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.
9 A. M. to 10 A. M.	CLINIC.	LECTURE, Operative Dentistry, DR. CARLTON.	CLINIC.	LECTURE, Mechanical Dentistry, Dr. SHARP	LECTURE, Operative Dentistry, Dr. CARLTON.
10 A. M. to 11 A. M.		CLINIC.		LECTURE, Anatomy, Prof. WILLIAMSON.	LECTURE, Physiology, Prof. D'ANCONA
11 A. M. to 12 M.	LECTURE, Anatomy, Prof. WILL'NSON		LECTURE, Physiology, P'f. D'ANCONA	LECTURE, Chemistry, P'f. LENGFELD	LECTURE, Chemistry, Prof. LENGFELD
9 A. M. to 1 P. M.	DEMONSTRAT'RS Dr. SULLIVAN, Dr. HAUSELT, Dr. TOBRINER.	DEMONSTR'T'S Dr. SULLIVAN, Dr. HAUSELT, Dr. TOBRINER.	DEMONSTR'T'S Dr. SULLIVAN, Dr. HAUSELT, Dr. TOBRINER.	DEMONSTR'T'S Dr. SULLIVAN, Dr. HAUSELT, Dr. TOBRINER.	DEMONSTRAT'RS Dr. SULLIVAN, Dr. HAUSELT, Dr. TOBRINER.
1 P. M. to 5 P. M.	Dr. HERRINGTON Dr. STICH.	Dr. HER'GTON Dr. STICH.	Dr. HER'GTON Dr. STICH.	Dr. HER'GTON Dr. STICH.	Dr. HERRINGT'N Dr. STICH.
1 P. M. to 2 P. M.	LECTURE, Physiology, Dr. J. G. SHARP.		CLINICAL INSTRUCTORS. 1 to 3:30 P. M.		CLINIC.
2 P. M. to 3 P. M.	CLINIC.	LECTURE, Chemistry, Dr. HODGEN.			
3 P. M. to 4 P. M.			CLINIC.	3:30 to 4:30 LECTURE, Orthodontia, P'f. GODDARD	CLINIC.
4 P. M. to 5 P. M.		LECTURE, Pathology and Therapeutics. P'f. SULLIVAN		LECTURE, Materia Medica, P'f. SULLIVAN.	
5 P. M. to 6 P. M.		DISSECTING.			
SATURDAY, 9 A. M. to 12 M.					
OPERATIVE CLINICS AND HOSPITAL CLINICS IN SURGERY.					



ORDER OF LECTURES AND CLINICS.—*Continued.*

SENIOR YEAR.

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.
9 A. M. to 10 A. M.	LECTURE, Operative Den- tistry. Prof. DUNBAR.	LECTURE, Mechanical Dentistry, Dr. SHARP.	LECTURE, Operative Dentistry, Prof. DUNBAR	CLINIC.	CLINIC.
10 A. M. to 12 M.	CLINIC.	CLINIC.	CLINIC.		
9 A. M. to 1 P. M.	DEMONSTRAT'RS Dr. SULLIVAN, Dr. HAUSELT, Dr. TOBRINER.	DEMONSTR'T'S Dr. SULLIVAN, Dr. HAUSELT, Dr. TOBRINER.	DEMONSTR'T'S Dr. SULLIVAN, Dr. HAUSELT, Dr. TOBRINER.	DEMONSTR'T'S Dr. SULLIVAN, Dr. HAUSELT, Dr. TOBRINER.	DEMONSTRAT'RS Dr. SULLIVAN, Dr. HAUSELT, Dr. TOBRINER.
1 P. M. to 5 P. M.	Dr. HERRINGT'N Dr. STICH.	Dr. HER'GTON, Dr. STICH.	Dr. HER'GTON, Dr. STICH.	Dr. HER'GTON, Dr. STICH.	Dr. HERRINGT'N Dr. STICH.
1 P. M. to 2 P. M.	LECTURE, Dental Histology. Dr. J. G. SHARP.	CLINIC.	CLINIC INSTRUCTORS, 1 to 3:30	CLINIC.	LECTURE, Metallurgy, Dr. HODGEN.
2 P. M. to 4 P. M.	Practical Metallurgy, Division A, Dr. HODGEN.		LECTURE, Orthodontia. P'f. GODDARD		
4 P. M. to 5 P. M.		LECTURE. Pathology and Therapeutics, P'f. SULLIVAN	3:30 to 4:30. CLINIC, Orthodontia,	LECTURE, Materia Medica, P'f. SULLIVAN	Practical Metallurgy, Division B, Dr. HODGEN.
5 P. M. to 6 P. M.		QUIZ, Surgery, Prof. LEWITT.	P'f. GODDARD.	LECTURE, Surgery, Prof. LEWITT.	

SATURDAY, FROM 9 A. M. TO 12 M.

OPERATIVE CLINICS AND HOSPITAL CLINICS IN SURGERY.

Surgical Clinics will be held during the term by Prof. W. B. Lewitt whenever opportunity offers.

H. R. Wiley Esq., Special Lecturer on Dental Jurisprudence will give one lecture each month during the term.



## REQUIREMENTS FOR ADMISSION.

Every candidate for admission must be eighteen years of age, must present to the Faculty satisfactory evidence of a good moral character, and must be examined as to his previous education and fitness to appreciate the technical study of Dentistry.

Graduates and Undergraduates of Medicine desiring to qualify themselves for the practice of Dentistry will be governed by the following rules of the National Association of Dental Faculties:—

*Resolved*, That after the Session of 1890-91 a diploma from a reputable Medical College shall entitle its holder to enter the second course in Dental Colleges of this Association, but he may be excused from attendance upon lectures and examinations upon the following subjects: General Anatomy, Chemistry, Physiology, Materia Medica, and Therapeutics. (Excelsior, 1890.)

*Resolved*, That the candidates for admission to the Colleges of this Association who are Undergraduates in a reputable Medical College may be admitted to the Junior Class, subject to the rules of examination governing admission to that class. (Saratoga, 1891.)

Candidates for admission to advanced standing will be governed by the following rules:—

*Resolved*, That the Colleges of this Association may receive into the Junior or Senior Classes only such students as hold certificates of having passed a satisfactory examination in the studies of the Freshman or Junior years, respectively; this certificate is to be a pledge to any College to which they may apply that a previous year has been properly spent in the institution from whence they come. (Chicago, 1885; changed Saratoga, 1891.)

*Resolved*, That applicants for admission to advanced standing from foreign countries shall be required to furnish properly attested evidence of study, attendance upon lectures, etc., the same as required of applicants here, and they shall pass the intermediate examinations. (Chicago, 1885; changed, Saratoga, 1891.)

In accordance with the foregoing, this College will admit students to advanced standing who hold certificates from colleges belonging to the National Association of Faculties that exact a like standard of entrance requirement and curriculum.

Beginning with the Sixteenth Session (September 6, 1897), this College has adopted the following rules governing admissions, viz.—

## MATRICULATION EXAMINATION.

Students desiring to matriculate are required to undergo examination for admission in the following subjects:—

1. *English.* This examination will pre-suppose a study of English and American literature equal to that pursued in the first year of a high school course. Every candidate will be required also to write an English composition of not less than two hundred words, correct in spelling, punctuation, capital letters, grammar and paragraphing.

2. *Physics.* An amount represented by Avery's Natural Philosophy, or Gage's Introduction to Physical Science.

3. *Latin.* Refer to Smith's Principia Latina, Part I., Collier & Daniels Latin Lessons, or an equivalent.

4. *Electives.* For the sessions of 1898-99 and 1899-1900 the applicant must pass satisfactory examinations in studies of the following list headed "Elective," amounting to 4 credits. For the session of 1900-1901 the required number of electives will be six credits. Thereafter, the number of electives required will be increased to 9 credits.

## ELECTIVE STUDIES.

Advanced English	Civil Government
Algebra	Economics
Advanced Algebra ( $\frac{1}{2}$ )	Rhetoric ( $\frac{1}{2}$ )
Advanced Arithmetic ( $\frac{1}{2}$ )	Latin, 2d year
Plane Geometry	Latin, 3d year
Solid Geometry ( $\frac{1}{2}$ )	French, 1st year
Plane Trigonometry ( $\frac{1}{4}$ )	French, 2d year
Spheric Trigonometry ( $\frac{1}{4}$ )	French, 3d year
Chemistry	German, 1st year
Zoology	German, 2d year
Botany	German, 3d year
Physical Geography ( $\frac{1}{2}$ )	Greek, 1st year
Geology ( $\frac{1}{2}$ )	Greek, 2d year
Astronomy	Greek, 3d year
Physiology and Hygiene	German Classics in Eng. ( $\frac{1}{4}$ )
United States History	French Classics in Eng. ( $\frac{1}{4}$ )
General History	Latin Classics in Eng. ( $\frac{1}{4}$ )
Greek History ( $\frac{1}{2}$ )	Greek Classics in Eng. ( $\frac{1}{4}$ )
Roman History ( $\frac{1}{2}$ )	Book-keeping ( $\frac{1}{2}$ )

English History ( $\frac{1}{2}$ )	Home Science ( $\frac{1}{2}$ )
French History ( $\frac{1}{2}$ )	Drawing
	Manual Training

One "credit" represents the amount of ground covered in a given study in a good high school in one year, with four recitations a week. Fractions printed after the name of a subject indicate the proportion credited for that subject.

In lieu of an examination, certificates will be accepted from the schools accredited by the Academic Departments of the University of California. Teachers certificates of this State will be accepted in lieu of examinations in the studies which they cover. Blank forms will be sent on application. Conditions imposed at the entrance examinations must be removed before the end of the session.

Applicants intending to take the examination are advised to review their studies before doing so.

#### LIST OF ACCREDITED SCHOOLS, 1898.

Alameda Co. Union High School, No. 2, Centerville.	Monrovia City High School.
Alameda Co. Union High School, No. 3, Haywards.	Mt. Talmalpais Military Academy.
Alameda High School.	Nevada City High School.
Alameda University Academy.	Oakdale Union High School.
Arcata Union High School.	Oakland High School.
Armijo Union High School, Suisun.	Pasadena High School.
Arroyo Grande High School.	Paso Robles High School.
Belmont School.	Petaluma High School.
Berkeley High School.	Polytechnic High School.
Boone's University School, Berkeley.	Pomona High School.
California School of Mechanical Arts.	Redlands Union High School.
Citrus Union High School, Azusa.	Riverside High School.
Colusa High School.	Sacramento High School.
Coronado High School.	Salinas High School.
Dixon Union High School.	San Bernardino High School.
Escondido High School.	San Diego High School.
Esparto Union High School.	San Francisco Girls' High School.
Fresno High School	San Jose High School.
Fullerton Union High School.	San Luis Obispo High School.
Hanford Union High School.	San Rafael High School.
Miss Head's School, Berkeley.	Santa Ana High School.
Healdsburg High School.	Santa Barbara City High School.
	Santa Clara High School.
	Santa Cruz High School.
	Santa Monica High School.
	Santa Paula High School.

Hoitt's Oak Grove School, Burlingame.	Santa Rosa High School.
Miss Horton's School, Oakland.	Sonoma Valley Union High School.
Irving Institute.	Southwest Institute, San Diego.
Kern Co. High School, Bakersfield.	St. Matthew's School, San Mateo.
Livermore Union High School.	Stockton High School.
Lompoc Union High School.	Throop Polytechnic Institute.
Los Angeles High School.	Trinity School, San Francisco.
Lowell High School, San Francisco.	Tulare High School.
Marysville High School.	Ukiah High School.
Mendocino High School.	Vacaville Union High School.
Mill's Seminary (Preparatory Department.)	Vallejo High School.
Modesto High School.	Ventura High School.
* The State Normal Schools.	Visalia High School.
	Watsonville High School.
	Miss West's School.
	Woodland High School.
	Lincoln Evening High School.
	San Francisco Commercial High School.

---

N. B.—A revised list of accredited schools is in preparation by the authorities at Berkeley, but is not ready for publication.

---

### PRELIMINARY EXAMINATIONS.

There is a general examination for entrance held each year, on a fixed date, which is conducted by an instructor chosen from the academic departments of the University. Students desiring to enter must present themselves on the date named.

Entrance examinations may be held at places distant from San Francisco at the same time as the regular examinations.

Applicants wishing to take the examination at places other than San Francisco should notify the Dean before August 10th.

The preliminary examinations for the session of 1898-99 will be held in San Francisco, at the College building, corner Market and Taylor Streets (entrance No. 18 Taylor Street), Sept. 2d and 3d, at 9 o'clock A. M. Students desiring to present themselves at these examinations will please register their applications with the Clerk of the Faculty, at the College, No. 1170 Market Street.

---

\* The latter schools are only accredited in the subjects covered by their curriculum corresponding to our entrance requirement.



### THREE YEARS' STUDY.

The three years' course of study is arranged as follows :—

*Freshman Year.*—Anatomy, with dissections; Physiology and Histology, General and Dental; Chemistry, with laboratory work; Mechanical Dentistry; Operative Technic; Mechanical Technic; Microscopic Technic.

Examinations will be held at the end of the year in all the above branches.

*Junior Year.*—Anatomy, with dissections; Physiology and Histology, General and Dental; Chemistry; Mechanical Dentistry; Operative Dentistry; Pathology, Therapeutics, and Materia Medica; Orthodontia and Orthodontia Technic, Bacteriology.

Examinations will be held at the end of the year in all the above branches, and will be final in Anatomy, Physiology, Histology, Bacteriology, and Chemistry.

*Senior Year.*—Operative Dentistry; Mechanical Dentistry; Orthodontia, with practical cases; Metallurgy, with laboratory work; Pathology, Therapeutics, and Materia Medica; Surgery.

---

### REQUIREMENTS FOR GRADUATION.

The candidate for the degree of Doctor of Dental Surgery must have attained the age of twenty-one years, and be of good moral character.

He shall have passed a satisfactory examination, oral, written, and practical.

He shall have studied Dentistry *three* years, including the time spent in attending lectures.

He shall have attended three full courses in the College of Dentistry of the University of California, or two years in some other reputable Dental College of like standard of requirements for entrance, and the third or last in this College.

The candidate is required to dissect at least two quarters, upper and lower. He must treat thoroughly some patient requiring all the usual dental operations, and bring such patient before the Professors of Operative Dentistry and Dental Pathology and Therapeutics. He must also complete at least one practical artificial denture, insert at least one crown or piece of bridge-work, and, after completion, bring his patient before the Professor of Mechanical Dentistry at least thirty days before



the close of the term. He must treat one case of irregularity, under the instruction of the Professor of Orthodontia. He must also prepare a specimen denture, to be deposited in the College collection, and present the same to the Professor of Mechanical Dentistry at least thirty days before the end of the term. The operating and the work on the artificial cases must be done at the College building, and exclusively by the applicant for the degree.

*No student of this College will be permitted to practice Dentistry illegally while under the jurisdiction of the Faculty. Conviction of such practice will terminate the College career of the offender.*

After these requirements have been complied with, upon the recommendation of the Faculty and approval of the Board of Regents, the candidate shall receive the Degree of Doctor of Dental Surgery.

---

#### SCHEDULE OF FEES.

Matriculation.....	\$ 5 00
Lecture Fees (each year).....	100 00
Practical Microscopy (Freshman).....	10 00
Practical Anatomy (first and second years).....	10 00
Fee for Final Examinations (not returnable).....	25 00

The fees for each term must be paid in advance.

---

#### TEXT-BOOKS.

The following books will be needed during the course of study. Students are advised to procure Nos. 1, 2, 3, 4, 5, 7, and 14 of the subjoined list at the beginning of the first year, and to add the others before the Senior year:—

1. Dental Dictionary, Harris, or Medical Dictionary, Dunglison or Thomas.
2. Anatomy, Gray (13th ed.), Morris, Quain, or Holden.
3. Physiology, Foster, Stewart's Manual.
4. Mechanical Dentistry, Richardson, Harris, or Essig.
5. Operative Dentistry, Kirk, Taft, or Fillebrown.
6. Dental Chemistry, Mitchell.

---

\* The first-mentioned is the approved text-book.

7. Dental Anatomy, Black, 4th edition.
8. Orthodontia, Guilford, or Kirk & Essig.
9. Dental Metallurgy, Hodgen.
10. Dental Materia Medica and Therapeutics, Gorgas or Stockens.
11. Surgery, Moullin, or Am. Text-Book of Surgery.
12. Therapeutics, Wood, Biddle, or Bartholow.
13. Dental Pathology, Burchard, Abbott or Wedl.
14. Chemistry, Roscoe's Elementary Chemistry and Remsen's Introduction to the study of Chemistry.
15. Materia Medica, National Dispensatory or United States Dispensatory.

ADDITIONAL BOOKS FOR REFERENCE.

Oral Surgery, Garretson.  
American System of Dentistry, Litch.  
Histology, Sterling.  
Microscopical Morphology, Heitzman.  
Pathology, Green.  
Therapeutics, Hare.  
Oral Deformities, Kingsley.  
Nitrous Oxide, Guilford.  
Mechanical Dentistry, Haskell.  
Micro-Organisms of the Human Mouth, Miller.  
Irregularities, Farrar or Talbot.  
Anatomy and Pathology of the Teeth, Böedecker.  
Diseases of the Face, Jaws and associate parts, Marshall.



## OUTLINE OF THE COURSE OF STUDY.

---

### BIOLOGY.

Professor Joseph LeConte will deliver a series of lectures on the Correlation of Vital with Physical and Chemical Forces ; also, upon the Homologies of the Vertebrate Skeletons.

---

### OPERATIVE DENTISTRY.

The course of instruction in this department will be as comprehensive and thorough as approved appliances and methods can make it, and will embrace both the Didactic and Clinical courses.

Intra and extra uterine development of the teeth will be fully considered from the *primary* germ to the final loss of the permanent teeth.

The work will consist of a graded system of instruction, beginning with a comprehensive course in Operative Technics in the Freshman year, including a systematic study of tooth sections with silhouettes, and progressive block work, which is a feature of the course in this College, presenting an opportunity for the highest type of dental manipulative training. This is followed in the Junior year by a course in Clinical Technics, assisted by lectures and quizzes.

The Senior year is devoted to practical work in the Infirmary, supplemented by lectures on the principles and practice of Operative Dentistry.

It will be the aim of the department to make the entire course of lectures from this chair as practicable as possible, by a comparison of old and new methods, with a complete analysis of recent innovations in operative procedure, including the use of porcelain restorations.

Professor Dunbar will be assisted by Dr. H. P. Carlton and other Technic instructors, who will give ten hours each week to a series of Didactic and Clinical lectures, with a course in elementary and advanced Operative Technics for Junior and Freshman students.

## MECHANICAL DENTISTRY.

The instruction in Mechanical Dentistry will embrace everything necessary to enable the dentist successfully to apply substitutes for lost dental organs.

Special reference will be made to the principles involved in the restoration of the natural functions of the teeth, namely : mastication, enunciation, and expression of the features ; keeping in view always the health and the future usefulness of the living parts.

The instruction is divided into two courses, as follows :

*Freshman Course.*—Lectures on the treatment of the mouth and teeth preparatory to inserting artificial dentures ; impressions in wax and plaster ; casts ; the manufacture of artificial teeth, their selection and arrangement for special cases ; application of atmospheric pressure to artificial dentures ; properties and uses in the construction of dentures, of wax, plaster, shellac, sandarach, rubber, and celluloid.

*Junior and Senior Course.*—Lectures on the construction of instruments, of dies and counter-dies, of models of the mouth, and of molds ; construction of dentures on bases of gold, silver and aluminum ; continuous gum work.

The construction of crown and bridge work will receive especial attention.

---

## ORTHODONTIA.

The subject of Orthodontia has been developed so much during the past ten years that, from occupying a minor part in a course devoted to Mechanical Dentistry, it now occupies the entire time of the former occupant of that chair.

Instruction will be both didactic and clinical. One hour each week will be devoted to lectures on the cause, prevention, and treatment of irregularities. In this course will be included several lectures on Comparative Dental Anatomy, and the making of obturators and artificial vela. The lectures will be illustrated by crayon and blackboard drawings, specimens of all useful appliances, and casts of practical cases, a large number of which have accumulated from private practice and the College Infirmary. By means of the opaque stereopticon, casts can be projected on the screen for illustration.



Each week a clinical lecture will be given in the Infirmary, where each Senior student is required to treat a practical case of irregularity. As no two cases are alike, and each student can examine the cases of all the others, an exceptional opportunity is thus given for practical study.

Dr. Noble will give a course in Orthodontia Technic to the Juniors, who will be required to draw wire and tubing, both round and square, make screws and nuts, springs, bands, and all essential forms of regulating appliances. This course will prepare them for the practical work of the Senior year.

---

### PHYSIOLOGY.

The lectures in this department, by Professor D'Ancona, embrace a consideration of both General and Special Physiology, including all that has been developed up to the present time, and are illustrated by a complete series of colored drawings, prepared expressly for these lectures; besides which, the vast collection of preparations and drawings of the Scientific Department at Berkeley are at the command of the Professor. Vivisections are practiced when necessary to demonstrate principles, and the microscope and stereopticon are freely used for illustrating important facts and principles.

The course embraces the lectures of two years, one year being devoted to the physiology of the nervous system and reproduction, the other to nutrition, respiration, circulation, etc.

A course of lectures will be given on Embryology and Histology, and fully illustrated by photo-micrograph reproductions, charts, etc. This course will consist of a full consideration of the following subjects: A general study in the development of the chick and other embryos; the theory of reproduction, ova, segmentation, and the development of the three layers of the blastoderm, cellular morphology, including a comprehensive study of the biological cell, and the nature of protoplasm; the products of the epiblast, including the development of hair, nails, horns, hoofs, sudoriparous glands, and the enamel organ of the teeth. The products of the mesoblast, showing the development of the connective tissue group, including the subject of calcification of bone, dentine,



and cement—illustrative of the latter, many charts will be used in the comparative study of hard tissues,—and, lastly, the development of the teeth, will be fully considered by aid of a full line of illustrations from human and other embryos.

This will be supplemented by a course in practical work with the microscope, including Section Cutting, Staining, and Mounting, under the supervision of Professor D'Ancona, assisted by Dr. James G. Sharp, who will give a full course of laboratory training in Microscopic Technic, which will in future be a part of the Freshman curriculum, and must be completed in that year.

---

### SURGERY.

Professor William B. Lewitt, the Professor of the Principles and Practice of Surgery, will deliver one lecture each week on the Science and Art of Surgery, and devote one hour each week to a surgical clinic or recitation. His course will include General Surgical Principles and Pathology, and such lectures as may seem best adapted to students and practitioners of Dentistry. Also, a series of lectures on Anæsthesia and Anæsthetics, both general and local, with clinical illustrations before the class. Particular attention will be devoted to surgical diseases and injuries of the mouth, gums, and jaws, and the students will be instructed in their diagnosis, prognosis, and treatment, both by lectures and clinical demonstrations.

---

### CHEMISTRY AND METALLURGY.

Professor A. L. Lengfeld, in his course, will deliver two lectures each week, devoting special attention to that part of Chemistry which pertains more particularly to Dentistry. The lectures will be fully illustrated by means of all the necessary chemical and philosophical apparatus and numerous experiments. The nature, physical and chemical properties of the various remedies employed in Dentistry will be illustrated by the exhibition of crude drugs and pharmaceutical preparations, and by botanical plates and specimens.

The instruction in Dental *Metallurgy* will include lectures and practical laboratory work, the course embracing the theoretical and practical consideration of furnaces, fuels, proper-

ties, and uses of all the important metals, their alloys and compounds of dental interest. Special attention will be given to working steel, hardening and tempering instruments, also to refining and alloying gold and silver.

A thesis on *dental amalgams*, consisting of not more than five hundred or less than three hundred and fifty words, will be required of each candidate for graduation just previous to the final examinations.

---

### PRACTICAL CHEMISTRY.

Dr. J. D. Hodgen, Assistant to the Chair, will conduct a systematic and practical course in Experimental Chemistry. Qualitative Analysis, and Salivary Analysis. Each student is provided with a separate table and a complete set of apparatus and chemicals, and performs individually all experiments and reactions. Two courses in practical chemistry are required.

I. *First Year*.—Following Remsen's Introduction to the Study of Chemistry as a guide, each student will perform a series of experiments in which he will develop the main principles of the science of Chemistry, and become familiar with the physical and chemical properties of the leading families of elements and their compounds.

II. *Second Year*.—The experimental work will be continued. Special regard will be given to Analytical Chemistry and the analysis of the saliva.

---

### PRACTICAL METALLURGY.

Practical laboratory instruction will be given by Dr. Hodgen. Interesting and instructive experiments will be made under caption of the various metals, and each student will be required to conduct the same, together with all the usual operations in Dental Metallurgy, as well as experiments of original investigation in new alloys, compounds, preparation of basic zinc cements, gold and silver plate, solder, and foil.

Special attention will be given to the preparation of dental-amalgam alloys and tests of amalgam plugs made of all practical formulæ will demonstrate the properties of contraction, expansion, flow, edge strength, color, etc., of each. Old

amalgam fillings will be analyzed both qualitatively and quantitatively.

A fee of one dollar will be charged to cover breakage and loss.

---

### ANATOMY.

Professor Williamson's course in Anatomy will be illustrated by demonstrations on the cadaver, and by both wet and dry preparations, models, manikins, drawings, and diagrams, and will include the general anatomy of the entire body, with the special topographical and surgical anatomy appertaining to the head and neck.

The dissecting room is spacious, well ventilated, lighted from above, and provided with modern conveniences. It is open daily throughout the year, under the superintendence of the Professor and Demonstrator of Anatomy. A supply of material is always procurable at small cost. When dissections are conducted in a diligent manner, the student is furnished with certificates stating the amount and part dissected. One of the Demonstrators will be present daily in the dissecting room during working hours, so that students will receive the proper attention and assistance.

An osteological room will be open during the term, where students will have the opportunity of studying the anatomy of bones and articulations. Special demonstrations will be conducted in this room for members of the Freshman class.

---

### DENTAL PATHOLOGY, THERAPEUTICS, AND MATERIA MEDICA.

The lectures delivered by the incumbent of this chair will embrace a full and comprehensive course on the following topics:—

I. GENERAL PATHOLOGY.—In which will be discussed those general aspects of diseases with which it is necessary to be acquainted in order to be able to understand the nature of any departure from health; causes of disease, symptoms, diagnosis, prognosis, temperaments, pathology of anæsthetics, irritation, determination, congestion, effusion, suppuration, ulceration, sloughing, morbid growths, inflammation and its terminations.



2. **SPECIAL PATHOLOGY.**—In which a critical examination will be made into the special causes of dental decay; dental hygiene and prophylaxis; diseases of the enamel—of the dentine; diseases of the dentinal pulp—together with the causes of alveolar abscess—its stages and results; exostosis of the roots and alveoli; necrosis and exfoliation; diseases of the antrum; tumors, benign and malignant; diseases of the mucous membrane.

Neuralgia and other nervous affections will receive such attention as their importance may demand; and, besides, there will be presented such other special diseases as may in any degree be of interest to the dental practitioner, such as scurvy, scrofula, rachitis, and other diseases of the bones.

3. **GENERAL PRINCIPLES OF THERAPEUTICS.**—Under which head the general application of medicines will be noticed—their actions, constitutional and topical.

4. **SPECIAL THERAPEUTICS.**—In connection with Dental Materia Medica; as incidentally related thereto.

5. **MATERIA MEDICA** will be taught by lectures and recitations.

---

#### **THE DENTAL LABORATORY.**

The Dental Laboratory will be in charge of the Superintendent of Infirmary, who will assign patients to students, and, with the Demonstrators of Mechanical Dentistry, will give practical instruction in preparing the mouth for the insertion of artificial teeth, taking impressions, selecting and arranging teeth, and the construction of artificial dentures on bases of vulcanite, celluloid, silver, gold, etc.; also in alloying, refining, and preparing the metals for use. Special attention will be given to continuous gum work. On account of the length of the term, the opportunities for practice in correcting irregularities of the teeth will be unsurpassed, and will receive their share of attention.

---

#### **THE DENTAL INFIRMARY.**

The Operating Department will be under the immediate supervision of the Superintendent of Infirmary, who will have entire charge.

The rooms will be open during the forenoons of Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, and during the afternoons of each day, except Saturday, until 5 o'clock, when all practical matters pertaining to Operative Dentistry will be fully dealt with by the Demonstrators, one of whom will always be present. The Infirmary will be open throughout the entire year, thus affording a practical course for first and second year students, unsurpassed by any similar institution. As there is always an excess of clinical material on hand, and there are 648 hours per term (including three hours each Wednesday afternoon) devoted to practical consideration of diseases of the teeth and the adjacent parts, it is not difficult to estimate the advantages the students have in this department.

---

### **DISSECTIONS.**

The work in practical anatomy will be performed under the direction of the Demonstrator of Anatomy and his Assistants, in the dissecting room of the Medical Department of the University of California. The dissecting room is open throughout the entire year; a full supply of material is always on hand, at small cost, and is thoroughly preserved from decomposition. Upon the proper completion of the required dissections, the student is furnished by the Demonstrator with a certificate to that effect, which must be presented to the Dean for record.

The dissecting ticket (\$10) is good for the whole term—from January 1st to December 31st.

---

### **CLINICAL INSTRUCTION.**

During the course, Wednesday afternoon, from 1 to 3, will be devoted to Clinical lectures and operations by the Professors and visiting clinicians.

---

### **HOSPITALS.**

All students in Dentistry will have the same facilities and opportunities enjoyed by medical students in hospital practice and observation. They will have the freedom, as above represented, at the City and County Hospital and the City Receiving Hospital.



Medical and Surgical Clinical lectures are given by the Professors of the Medical Department of the City and County Hospital, Tuesdays, Thursdays, and Saturdays, from 9 to 12 A. M.; attendance upon which, though not a requirement, is recommended, on account of the unsurpassed facilities for study of anæsthetic methods.

For further particulars on this subject, see Medical Department Announcement.

### LIBRARY AND MUSEUM.

A nucleus has been formed, from which it is hoped a large library and museum will grow. All members and friends of the profession are invited to contribute books, pamphlets, and journals, charts, anatomical, physiological and pathological specimens, casts of deformities and irregularities of the teeth and associate parts, or anything that will be useful and instructive.

These contributions will be placed in the library and museum, and marked with the names of the donors, if desired.

*As a separate library and reading room is now provided, a special request is made for books and pamphlets.*

The Faculty desires to gratefully acknowledge donations of books, pamphlets, and specimens from Drs. Jorge Arroyo, John Rabe, F. H. Metcalf, E. L. Townsend and C. A. Litton.

L. L. DUNBAR, Dean of the Faculty,  
606 Sutter Street, San Francisco.

---

**N. B.—Boarding.** The expense of living in the city of San Francisco is very reasonable. Good board, with room rent, may now be procured at the low rate of five dollars per week, at a convenient distance from the College building.

There is a free public library in San Francisco, of which students may have full benefit.

Upon arriving in the city, students will immediately register in the Dean's office, at the College building, No. 1170 Market Street.

1 Rubber Plaster Bowl.....	\$	60
1 Articulator. White's plain line.....		90
½ doz. Impression Trays, viz :		
2 Full Upper, A 1-3; 2 Full Lower, F 1-3; }		
1 Partial Upper, C 13; 1 Partial Lower, G 13 }		1.50
1 Wax Spatula. Beals' pattern.....		.50
1 Vulcanite File, double end.....		.45
2 Vulcanite Finishers (Wilson's H. and R.), 1, 2, 3, wood handles		1.00
2 Corundum Wheels, large and small { No. 4, ¼ in.....		.18
	{ No. 7, ⅜ in.....	.50
1 Felt Wheel for polishing No. 3, 2¼ in.....		.20
1 Felt Cone for Polishing.....		.20
1 Soft Brush Wheel for Polishing. No. 26, 3 rows, 3 in. diameter		.35
1 Stiff Brush Wheel for Polishing. 2 rows, 1½ in. diameter.....		.15
1 Brass Blowpipe, plain.....		.15
1 Plaster Spatula, 4 in.....		.25
1 Plaster Knife. No. 5, Buffalo.....		.50
1 Gas Burner, with Spider.....		.75
1 Chuck for U. S. Lathe.....		.90
1 Lewis Cross-bar Vulcanizer (complete).....		16.00
1 Wrench (adjustable).....		.50
		\$25.58

1 Student's Instrument Case.....	\$ 6.00
1 Coarse Half-round File.....	.50
1 Fine Half-round File.....	.50
1 Tooth Brush, white handle, medium.....	.35
*1 Broach Holder.....	.75
*1 doz. Jeweler's Broaches, fine.....	.25
6 Medicine Bottles.....	.40
*1 pair Foil Carriers.....	1.00
*1 Jennings Case Mallet.....	2.00
*1 Annealing Lamp and Shield.....	.60
*1 Chip Blower.....	.49
*1 Large Arkansas Stone.....	.60
*1 set Flagg's Plastic Instruments.....	3.50
Slab and Spatula for Cements.....	.25
*6 Excavators, selected U. C. Set.....	1.50
3 Chisels (1 straight-edge, 2 R. & L.), U. C. Set.....	.75
*3 Pluggers from College Set.....	1.05
The items marked * are used in subsequent courses.	
	<u>\$20.25</u>

N. B.—The above instruments and appliances must be procured by each student and submitted to the Superintendent before his seat is assigned.

# TOOLS AND APPLIANCES REQUIRED BY JUNIOR AND SENIOR STUDENTS.

## FOR LABORATORY WORK.

1 Mechanical Blowpipe.....	\$ 3.50
1 pair Plate Shears, S. S. White.....	1.00
1 pair Plate Nippers, S. S. White.....	2.75
1 pair Flat-nose Pliers.....	.50
1 pair Round-nose Pliers.....	.50
1 Plate Punch.....	2.25
1 Half-round File, fine.....	.25
1 Flat File, fine.....	.25
1 Horn Hammer.....	.38
1 Riveting Hammer, convex face.....	.70
1 pair Long Soldering Pliers.....	.10
1 Soldering Support.....	.75
1 Swage.....	
1 Artificial Plate Brush, Florence plate.....	.50
1 Clasp Bender.....	2.25
1 Triangular File.....	.35
1 Steel Burnisher.....	.50
1 Large Flat File.....	.35
1 Jeweler's Saw-frame and Saws.....	.60—15
1 pair Calipers.....	.25
Emery Cloth and Paper.....	.50
Additional Corundum Wheels.....	

## FOR ORTHODONTIA TECHNIC.

Screw Plate.....	\$ 1.25
Draw Plate.....	1.50
Pin Vice.....	.60
Draw Tongs.....	1.00

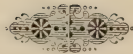
## JUNIOR AND SENIOR INSTRUMENTS FOR INFIRMARY.

*1 set of Pluggers, U. C. Set.....	\$1.05†	\$ 8.40
*1 Jennings Case Mallet.....	2.00	2.00
*1 doz. Selected Excavators, U. C. Set.....	1.50	2.50
*1 set 6 Chisels, U. C. Set.....	.75	1.25
*1 set Amalgam Instruments (Flagg's).....	3.00	3.00
1 doz. Cavity Burs for Engine.....		2.25
¼ doz. Plug Finishing Burrs for Engine.....		1.20
1 doz. Assorted Corundum and Rubber Points.....		.50
1 Mandrel.....		.25
¼ doz. Gold Finishing Files.....		1.71
½ doz. R. Dam Clamps.....		2.40
1 R. Dam Holder.....		1.00
1 R. Dam Punch.....		3.50
1 set R. Dam Weights.....		1.00

†The items in this column should be in the outfit of each student from previous purchase.

I pair Wedge Cutters.....	2.25
*I pair Foil Carriers.....	1.00
I Foil Shears.....	1.00
I pair Clamp Forceps.....	3.00
I Mouth Mirror, magnifying.....	1.00
*I Chip Blower.....	.40
I Water Syringe.....	1.00
I Separating Saw.....	.75
I set of Scalars.....	2.00
I Ball and Blade Burnisher.....	.50
*I Large Arkansas Stone.....	.60
I package Cleansers, No. 4.....	1.25
*I Broach Holder.....	.75
I package Orange Wood.....	.10
I Slab and Spatula for Cements.....	.25
I package Absorbent Cotton.....	.20
I package Spunk.....	.20
I Engine Head, Sleeve, Cable, and Hand-piece.....	21.00
I doz. 18-in. White Napkins.....	
Perry or Ivory Separators—Ivory.....	3.50

Students are requested to mark their property for identification.





## STUDENTS OF THE SESSION OF 1897-98.

### SENIOR CLASS.

NAME.	RESIDENCE.	PRECEPTOR.
Aiken, Perley Bosworth . . .	Paia, Maui, H. I.	Col. of Dentistry, U. C.
Allen, Henry Graham . . .	San Francisco, Cal.	C. L. Ziegler, D.D.S.
Atkins, John Hugh . . .	San Francisco, Cal.	O. F. Westphal, D.D.S.
Beers, Miss Mabel Lucille . .	San Francisco, Cal.	Col. of Dentistry, U. C.
Bennett, George Eben*. . .	San Francisco, Cal.	F. W. Bliss, D.D.S.
Burridge, Walter Joseph . . .	San Francisco, Cal.	Harry G. Young
Cline, Jean . . . . .	Portland, Or.	Col. of Dentistry, U. C.
Cooper, John Hill . . . . .	Campbell, Cal.	Col. of Dentistry, U. C.
Craig, Homer Theodore . . .	Oakland, Cal.	Col. of Dentistry, U. C.
Dodel, Xavier, M.D. . . . .	Wolfert, Germany	Col. of Dentistry, U. C.
Du' Bois, Charles Hall . . .	San Rafael, Cal.	Col. of Dentistry, U. C.
Edwards, Andrew Lewis . . .	San Francisco, Cal.	Col. of Dentistry, U. C.
Estes, Weston Burgess . . .	Sacramento, Cal.	W. C. Reith, D. D. S.
Gottenberg, Hartley Williams	Oakland, Cal.	F. J. Lane, D.D.S.
Halsey, Norman Hartley . . .	Oakland, Cal.	W. H. Halsey, D.D.S.
Henderson, William Daniel .	Berkeley, Cal.	C. C. Cornwall
Hiniker, Andrew Jackson . .	San Rafael, Cal.	Col. of Dentistry, U. C.
Hinckley, Ira Loomis . . . .	Fillmore, Cal.	Col. of Dentistry, U. C.
Jones, Perley Centennial . . .	Pacific Grove, Cal.	Dr. J. Van Horner
Jordon, Miss Minnie Evangeline	Ontario, Cal.	Col. of Dentistry, U. C.
Lemmon, Charles Fisher . . .	San Francisco, Cal.	A. T. Derby, D.D.S.
Linscott, William Raymond .	Santa Cruz, Cal.	J. P. Parker, D.D.S.
MacDonald, Miss Flora Mae .	San Francisco, Cal.	Col. of Dentistry, U. C.
Mariotte, Louis Paul . . . .	Oakland, Cal.	Col. of Dentistry, U. C.
McPike, Charles Luttrell . . .	Vallejo, Cal.	Col. of Dentistry, U. C.
Menton, Hubert Oscar Francis	Santa Clara, Cal.	G. H. Worrall, D.D.S.
Millar, Jas. Benjamin Franklin	San Francisco, Cal.	C. H. Bell, D.D.S.
Morey, Charles Leonard . . .	Oakland, Cal.	Col. of Dentistry, U. C.
Painter, Jerome Bonaparte . .	Alameda, Cal.	Col. of Dentistry, U. C.
Parker, Miss Helen Agnes . .	Oakland, Cal.	Col. of Dentistry, U. C.
Pratt, Armstrong Cooper . . .	San Bernard'o, Cal.	Col. of Dentistry, U. C.
Pearce, Frederick Bright . . .	San Jose, Cal.	Frank L. Argall.
Reich, Charles Louis† . . . .	San Francisco, Cal.	Col. of Dentistry, U. C.
Rulofson, Alfred Currie, Jr. .	San Francisco, Cal.	Col. of Dentistry, U. C.
Schillig, George E. . . . .	Yuba City, Cal.	Col. of Dentistry, U. C.
Scott, Franklin Trewick . . .	Sacramento, Cal.	William Wood.
Sellwood, Frank Convers . . .	Salem, Oregon . .	Col. of Dentistry, U. C.
Sisson, Ernest Kirkpatrick . .	San Francisco, Cal.	J. P. Parker, D.D.S.

\*Not in attendance.

† Hold over from 1896-97.



Smith, Thomas Martin . . . .	San Jose, Cal. . . .	Col. of Dentistry, U.C.
Smyth, Walter Joseph . . . .	Oakland, Cal. . . .	Col. of Dentistry, U.C.
Stalder, Joseph Mehler . . . .	Oakland, Cal. . . .	Col. of Dentistry, U.C.
Stanford, George Grant . . . .	San Francisco, Cal. . . .	Col. of Dentistry, U.C.
Stephens, Charles Joy, A. M. . .	Paris, Ky. . . . .	Col. of Dentistry, U.C.
Stewart, George Henry . . . .	San Francisco, Cal. . . .	C. L. Ziegler, D. D. S.
Thurstou, George Washington . .	Elk, Cal. . . . .	Col. of Dentistry, U.C.
Walden, William Alfred . . . .	Stockton, Cal. . . .	Col. of Dentistry, U.C.
Wanz, Arthur Henry . . . . .	San Francisco, Cal. . . .	Henry Sylvester, Jr., D.D.S.
Warnekros, William Louis . . . .	Fresno, Cal. . . . .	Col. of Dentistry, U.C.
Watkins, Frank Dilts . . . . .	San Jose, Cal. . . . .	F. K. Ledyard.
Wilcoxon, Caleb Russell . . . .	Yuba City, Cal. . . .	C. L. Ziegler, D.D.S.
Worthington, Miss Jean Irene . .	San Francisco, Cal. . . .	Col. of Dentistry, U.C.
Wymore, George Henry . . . . .	Melitta, Cal. . . . .	Col. of Dentistry, U.C.

### *JUNIOR CLASS.*

NAME.	RESIDENCE.	PRECEPTOR.
Arroyo, Ricardo . . . . .	Antigua, Guatem'la	Jorge Arroyo, D.D.S.
Allin, William Robertson . . . .	Salem, Oregon . . . .	Col. of Dentistry, U.C.
Bacon, William Robert . . . . .	Alameda, Cal. . . . .	Col. of Dentistry, U.C.
Burns, Paul Milton . . . . .	San Francisco, Cal. . . .	Col. of Dentistry, U.C.
Barnett, Joseph . . . . .	New York C'y, N.Y. . . .	Col. of Dentistry, U.C.
Baker, Arthur Woodley . . . . .	San Francisco, Cal. . . .	Col. of Dentistry, U.C.
Blake, Robert Johnson . . . . .	San Francisco, Cal. . . .	A. E. Blake, M.D., D.D.S.
Blossom, Miss May . . . . .	Carson City, Nev. . . .	Col. of Dentistry, U.C.
Croall, Miss Anna Belle		
Paterson . . . . .	San Francisco, Cal. . . .	L. Van Orden, D.D.S.
Colegrove, John Albert . . . . .	Oakland, Cal. . . . .	E. L. Dow, D.D.S.
Callender, Monroe N. . . . .	San Francisco, Cal. . . .	Geo. A. Merrill.
Dunbar, Palmer Howard . . . . .	San Francisco, Cal. . . .	Luis L. Dunbar, D.D.S.
Deckelman, Francis Emil . . . . .	San Francisco, Cal. . . .	N. T. Coulson, D.D.S.
Fairweather, Norman Stanley . . .	San Francisco, Cal. . . .	Chas. Boxton, D.D.S.
Fugler, Cecil Albert . . . . .	Santa Maria, Cal. . . .	Col. of Dentistry, U.C.
Grant, Frederick Thomas . . . . .	Healdsburg, Cal. . . .	W. E. Nye, D.D.S.
Gove, George Weston . . . . .	Berkeley, Cal. . . . .	Col. of Dentistry, U.C.
Gruss, Francis Joseph . . . . .	San Francisco, Cal. . . .	Col. of Dentistry, U.C.
Gambitz, Lee Robert . . . . .	San Francisco, Cal. . . .	M. R. Gambitz, D.D.S.
Hall, Robert Thomas . . . . .	Fresno, Cal. . . . .	Col. of Dentistry, U.C.
Herrmann Miss Leonore Freida . .	San Francisco, Cal. . . .	Col. of Dentistry, U.C.
Halsted, James La Fayette, Jr. . .	San Francisco, Cal. . . .	Col. of Dentistry, U.C.
Hus, Francois Louis Marium . . . .	Oakland, Cal. . . . .	Col. of Dentistry, U.C.
Hamlin, Benagah Ralph . . . . .	Alameda, Cal. . . . .	Col. of Dentistry, U.C.
Hocker, Jos. Michael Francis . . .	San Francisco, Cal. . . .	Col. of Dentistry, U.C.
Kuster, Charles Frederick . . . .	Wheatland, Cal. . . .	Col. of Dentistry, U.C.

Lackey, Warren Lafayette*	Gold Hill, Nev.	J. T. Thomas, D.D.S.
Lawson, William Joseph . . .	Silver City, Nev.	Col. of Dentistry, U.C.
Likens, George Willis . . . .	Carson City, Nev.	J. W. Likens, D.D.S.
Meyer, William Preston . . .	San Francisco, Cal.	S. R. Jacobs, D.D.S.
Mayhew, William Horace . . .	San Francisco, Cal.	Col. of Dentistry, U.C.
McKee, Alexander Ignatius *	Oakland, Cal.	Col. of Dentistry, U.C.
Mulrenin, Edward Martin . . .	San Francisco, Cal.	N. T. Coulson, D.D.S.
Piper, Stephen Livingston . . .	San Francisco, Cal.	Col. of Dentistry, U.C.
Parks, Louis Herbert . . . .	Marysville, Cal.	Col. of Dentistry, U.C.
Patterson, Andrew Darwin . . .	Visalia, Cal.	Col. of Dentistry, U.C.
Renwick, Wallace Hiram . . .	Sacramento, Cal.	W. Wood.
River, Joseph Patrick . . . .	San Francisco, Cal.	Col. of Dentistry, U.C.
Sullivan, Abraham Sinclair . . .	San Francisco, Cal.	Col. of Dentistry, U.C.
Schiller, Morris . . . . .	San Diego, Cal.	D. Cave.
Smyth, Thomas Ustick . . . .	San Rafael, Cal.	Col. of Dentistry, U.C.
Southworth, Stephen Scott . . .	San Rafael, Cal.	E. L. Southworth, D.D.S.
Soher, Henry Charles . . . .	San Francisco, Cal.	H. G. Young.
Tennyson, Howard Alan . . . .	San Francisco, Cal.	G. F. Nevins, D.D.S.
Tennyson, Clarence Bruce . . .	San Francisco, Cal.	J. W. Davy, D.D.S.
Tate, Alonzo Walter . . . . .	Oakland, Cal.	S. P. Tate, Jr.
Turner, Miss Rosa Edith . . . .	Modesto, Cal.	Col. of Dentistry, U.C.
Williams, John Jarvis . . . .	Modesto, Cal.	Col. of Dentistry, U.C.
White, Arthur Loring . . . . .	San Francisco, Cal.	J. N. Powell.
Warner, Charles Pomroy . . . .	Montgomery, Ala.	Col. of Dentistry, U.C.
Whitney, Edward Otis . . . . .	San Jose, Cal.	J. A. Frazer, D.D.S.

### FRESHMAN CLASS.

NAME.	RESIDENCE.	PRECEPTOR.
Aiken, Geo. Smythe . . . . .	Paia, H. I.	Col. of Dentistry, U. C.
Austin, Walter Pike . . . . .	Santa Cruz, Cal.	Col. of Dentistry, U. C.
Baxter, Hiram Dudley . . . . .	Oakland, Cal.	Col. of Dentistry, U. C.
Bergstrom, Gottfrid . . . . .	Engelhohn, Swd'n	Col. of Dentistry, U. C.
Bernheim, Julien Rex . . . . .	Santa Cruz, Cal.	Dr. Chas. L. Bliss.
Blackburn, Daniel Edward . . . .	Paso Robles, Cal.	E. M. Dodson, D. D. S.
Broad, Edward James . . . . .	San Francisco, Cal.	Dr. Christensen.
Burns, Ralph Ellis . . . . .	San Jose, Cal.	Col. of Dentistry, U. C.
Caceres, Edwardo . . . . .	Guatemala, C. A.	Col. of Dentistry, U. C.
Carlson, Adam . . . . .	Moleta, Sweden	Col. of Dentistry, U. C.
Carmichael, Thos. Merritt . . . .	San Jose, Cal.	Dr. C. C. Maynard.
Casaday, Geo. Harry . . . . .	Watsonville, Cal.	C. H. Pearce, D.D.S.
Cockerton, Daniel Henry . . . . .	Oakland, Cal.	Col. of Dentistry, U. C.
Cummings, Philip Stephen . . . .	Berkeley, Cal.	Col. of Dentistry, U. C.
Doyle, Joseph Horace . . . . .	Redwood City, Cal.	Col. of Dentistry, U. C.
Davis, Miss Alice May . . . . .	Salem, Oregon	Col. of Dentistry, U. C.
Eller, Hubert Crees . . . . .	Etna Mills, Cal.	Col. of Dentistry, U. C.

\* Not in attendance.

Farman, Chas. Edward . . . .	Berkeley, Cal. . . .	Dr. J. J. Birge. Dr. C. H. Farman.
Finley, John Howard . . . .	Modesto, Cal. . . .	Col. of Dentistry, U. C.
Fogerty, Joseph Ignatius * . . .	Sydney, N. S. W. . . .	Col. of Dentistry, U. C.
Foster, Hartley C. . . . .	Red Bluff, Cal. . . .	Col. of Dentistry, U. C.
Galloway, John Francis . . . .	Santa Ana, Cal. . . .	P. R. Reynolds, D. D. S. M. D.
Grider, Jesse Benjamin . . . .	Seiad Valley, Cal. . . .	Col. of Dentistry, U. C.
Hackett, Arthur Earl . . . .	San Francisco, Cal. . . .	Drs. Pague and Brewer.
Hardy, Chas. Sumner . . . .	Oakland, Cal. . . .	Col. of Dentistry, U. C.
Hus, Theo. Henri Antoine . . . .	Alameda, Cal. . . .	Col. of Dentistry, U. C.
Joost, Anna Dorothea . . . .	San Francisco, Cal. . . .	Col. of Dentistry, U. C.
Lehritter, John Edwin . . . .	San Francisco, Cal. . . .	Col. of Dentistry, U. C.
Leppo, David Harrison . . . .	Santa Rosa, Cal. . . .	Drs. Savage and Anderson.
Lucchetti, Albert Francis . . . .	San Francisco, Cal. . . .	Col. of Dentistry, U. C.
Madden, Michael Frank . . . .	San Jose, Cal. . . .	A. G. Bennett, D.D.S.
Meyer, Herbert Stanhope . . . .	San Francisco, Cal. . . .	J. S. Knowlton.
McClymonds, Roy Smith . . . .	Oakland, Cal. . . .	Col. of Dentistry, U. C.
McClish, John Milton . . . .	Healdsburg, Cal. . . .	Oscar Litchfield, D. D. S.
Mogan, Christopher John . . . .	San Francisco, Cal. . . .	Col. of Dentistry, U. C.
Moore, Edna Fulton Johnson . . . .	Marysville, Cal. . . .	Col. of Dentistry, U. C.
Morgan, Alvah Nevada . . . .	Nevada City, Cal. . . .	C. W. Decker.
Newman, Harry Charles . . . .	Oakland, Cal. . . .	Col. of Dentistry, U. C.
Ohhara, Totaro Hitoshi . . . .	Japan . . . . .	M. E. Grossman, D.D.S.
Ostrom, Daniel Augustus . . . .	Marysville, Cal. . . .	W. O. Girardy, D.D.S.
Phillips, Geo. Hudson . . . .	Hanford, Cal. . . .	Col. of Dentistry, U. C.
Phillips, Henry J. . . . .	Petaluma, Cal. . . .	F. K. Munday, D. D. S.
Pohlman, Harry Dyer * . . . .	San Francisco, Cal. . . .	Col. of Dentistry, U. C.
Prince, Albert David . . . .	San Francisco, Cal. . . .	Col. of Dentistry, U. C.
Rulison, Frederick Joseph . . . .	Reno, Nevada . . . .	D. W. Rulison, D.D.S.
Rodriguez, Jose Salvador . . . .	Guatemala, C. A. . . .	Col. of Dentistry, U. C.
Rogers, Eldon Earle . . . .	San Francisco, Cal. . . .	Col. of Dentistry, U. C.
Scheu, Richard Edmond . . . .	San Francisco, Cal. . . .	Col. of Dentistry, U. C.
Scott, John Hartley . . . .	Sacramento, Cal. . . .	Dr. W. A. Root.
Somersett, John Christopher . . . .	San Francisco, Cal. . . .	Col. of Dentistry, U. C.
Tobriner, Marion Laurence . . . .	San Francisco, Cal. . . .	Col. of Dentistry, U. C.
Tryon, Will Merrill . . . .	Sacramento, Cal. . . .	Col. of Dentistry, U. C.
Vaughan, Frank . . . . .	Pendleton, Oregon . . . .	E. A. Vaughan, D.D.S.
Von Benzou, August Wm. . . .	San Francisco, Cal. . . .	Col. of Dentistry, U. C.
White, Chapman M., Jr. . . .	Chico, Cal. . . .	Dr. Meek.
Whitman, Edward Wallace . . . .	Oakland, Cal. . . .	Col. of Dentistry, U. C.
Stapff, Frederick Wm. * . . .	San Francisco, Cal. . . .	Col. of Dentistry, U. C.
Levinsaler, Joseph Burgess * . . .	San Francisco, Cal. . . .	Col. of Dentistry, U. C.

\* Not in attendance.

*SPECIAL STUDENTS.*

Foncca Jose Vicente . . . . . Guatemala, C. A.

---

SUMMARY.

SENIORS.....	52
JUNIORS.....	51
FRESHMAN.....	58
SPECIAL STUDENTS.....	1
<hr/>	
Total.....	162





## GRADUATES.

### 1882.

Thomas Watson Hall.....	Oakland, California
Charles Wesley Hibbard.....	San Francisco, California
Thomas Morffew.....	San Francisco, California
Henry John Plomteaux.....	Oakland, California
Charles Wesley Richards.....	San Francisco, California
Gustave William Sichel, M.D.....	San Francisco, California
William Henry Stanley.....	San Francisco, California
August Van Crombrughe†.....	San Francisco, California

### 1883.

John Nelson Blood*.....	Greenville, California
Charles Boxton.....	San Francisco, California
Maria Angelina Burch*.....	Pescadero, California
Edward Overton Cochrane.....	San Francisco, California
Russell Hopkins Cool.....	Oakland, California
Milton Francis Gabbs.....	San Francisco, California
William Edmund Price.....	San Francisco, California

### 1884.

George Washington Cool.....	Oakland, California
John Michael Dunn.....	Oakland, California
Archibald Duncan Gleaves.....	Anderson, California
Robert Nicol.....	India
Gustave Carl Reitzke.....	San Francisco, California
William Henry Simmons.....	Oakland, California
Elmer Joseph Weldon.....	Vacaville, California

### 1885.

Henry Sylvester Bettis.....	Boise City, Idaho
George Botsford.....	San Francisco, California
Daniel Barratt Cate.....	Quincy, California
Nathaniel Thomas Coulson.....	San Francisco, California
George Ihmer Drucker.....	San Francisco, California
William Ellis Fitzpatrick.....	San Francisco, California
Walter Robert Henderson.....	Stockton, California
John Adams Douglas Hutton.....	West Berkeley, California
Franklin Pancoast... ..	San Francisco, California
Charles Theodore Rodolph.....	Oakland, California
Frederick Judson Saxe, A. M.....	Oakland, California

\* Deceased.

† Name changed to August Van Crom by Superior Court, San Francisco, July 22, '89



Joseph Schneider.....San Salvador, Central America  
Henry Sylvester, Jr.....San Francisco, California

1886.

Harry Putnam Carlton.....San Francisco, California  
Hector Ludovic Couret.....Sonora, Mexico  
Martin Joseph Dunn.....San Francisco, California  
Nicholas Anton Givovich.....Cardiff, Wales  
John Gow Humphrey.....Alameda, California  
Thomas Harvey Morris.....San Francisco, California  
William Cormack Reith.....Sacramento, California  
Joseph Emil Sand.....San Francisco, California  
Benjamin Franklin Simmons.....Oakland, California  
William Oltman Stuttmeister.....Redwood City, California  
William Grover Sylvester.....San Francisco, California

1887.

Edward Livingston Davis.....San Francisco, California  
Joseph Dupuy Hodgen.....San Francisco, California  
Harold McKean Jones.....Cloverdale, California  
Edward Maldonado.....San Francisco, California  
Robert Eugene Payne.....New York  
Charles Edgar Post.....San Francisco, California  
Arthur Theodore Regensburger.....San Francisco, California  
George Frederick Rodden.....San Francisco, California  
George Walter Rodolph.....Oakland, California  
Granville Eugene Shuey.....East Oakland, California  
Jennie Martin Simpson.....San Francisco, California  
Otto Frank Westphal.....San Francisco, California

1888.

Ira Hart Chapman.....San Francisco, California  
Samuel Alston Hackett.....Oakland, California  
Frank Lewis Hultberg.....San Francisco, California  
Philander McCargar.....Oakland, California  
Joseph Pfister.....Suisun, California  
William George Shankey.....San Francisco, California  
Edward Nelson Short.....San Francisco, California  
Charles Sawtelle Weston.....Oakland, California

1889.

Milton Ross Gambitz.....San Francisco, California  
Benjamin Mitchell Gunzberger.....San Francisco, California  
William Alexander Meyer.....San Francisco, California  
Warren Guice Mobley.....Oakland, California  
Dorr Nash.....San Jose, California  
Andrew John Powell.....Haywards, California  
Edward William Pratt.....San Francisco, California  
Frederick Courtland Sutliff.....Sacramento, California  
Arthur Henry Wallace.....San Francisco, California

1890.

Frederick Harrison Allbright.....	Red Bluff, California
Gotthard Sigismund Backman.....	San Francisco, California
Frank Drake Burleson.....	Santa Cruz, California
Paul Charles Erhardt.....	San Francisco, California
William T. Heider.....	Oakland, California
Charles Alex Herrick.....	Jackson, California
Saul Robert Jacobs.....	San Francisco, California
Charles Ashby Litton.....	San Francisco, California
Walter Romain Lovegrove.....	San Francisco, California
George Martin.....	Berlin, Germany
Clark Harrison Rawson.....	Jamestown, New York
Richard McCargar.....	San Francisco, California
John Matthew Redmond.....	Santa Rosa, California
David Warren Rulison.....	Reno, Nevada
William Fuller Sharp.....	San Francisco, California
Albert John Sylvester.....	San Francisco, California

1891.

Josephine Wright Armstrong.....	San Francisco, California
Charles Franklin Bauer.....	San Francisco, California
Charles Henry Bell.....	San Francisco, California
John Millard Blodgett.....	Lodi, California
Cecil Corwin.....	Oakland, California
D. Carter Elliott.....	Martinez, California
Philip Foster Frear.....	Oakland, California
Charles Lawrence Griswold.....	St. Paul, Minnesota
Charles George Hyde*.....	Merced, California
Edwin Chandler Hyde.....	Phoenix, Arizona
William Martin.....	Oakland, California
John Patrick McCarthy.....	San Francisco, California
Charles Avan Meek.....	San Francisco, California
Albert Dean Elmore Miles.....	San Francisco, California
Robert Forrester Millar.....	Alameda, California
Robert Isaac Moore.....	Honolulu, H. I.
Howard Delos Noble.....	San Francisco, California
Forrest Hoy Orton.....	St. Paul, Minnesota
Frank Harry Phillips.....	Hollister, California
Harry Griffin Richards.....	San Francisco, California
Harold Lawrence Seager.....	San Francisco, California
Harry Howard Shaw.....	San Francisco, California
George Newins Van Orden.....	San Francisco, California
Gustavus Adolphus Weyer.....	Modesto, California

1892-93.†

Edmund James Alger.....	Santa Cruz, California
Reginald Heber Allen.....	East Oakland, California

\* Deceased.

† Session changed from summer to winter.

Jorge Arroyo.....	Guatemala, Central America
Frank Parker Ashworth.....	San Jose, California
William Nelson Avery.....	San Jose, California
Augustus Griffin Bennett, Jr.....	San Jose, California
Paul Stirling Coke .....	San Jose, California
Emile William Davis.....	Melbourne, Australia
Cecil Chalmers Dennis .....	San Francisco, California
Albert Terrill Derby.....	San Francisco, California
William Caughlin Grove.....	Oakland, California
Wilbur Hanford Halsey.....	Oakland, California
George Herman Huddy.....	Honolulu, H. I.
Oscar Litchfield.....	Healdsburg, California
William Andrew McQuitty.....	San Francisco, California
George Hubbard Meredith.....	Smartsville, California
Edward Thomas Mervy.....	San Francisco, California
Edward Franklin Parr.....	Chico, California
Corydon B. Root.....	San Francisco, California
Ernest Frederick Schlott.....	San Francisco, California
Frederick Schumacher.....	San Jose, California
Walter Kendal Scott.....	San Francisco, California
James Graham Sharp.....	San Francisco, California
Allen Holman Suggett, B. S.....	Marysville, California
Harry Francis Sullivan.....	Oakland, California
Robert Lee Taylor.....	San Francisco, California
William Emmett Taylor.....	Oakland, California
Joseph Treleaven Thomas*.....	Gold Hill, Nevada

#### 1893-94.

Edward Ellsworth Baird.....	Sanger, California
William Henry Cavell.....	Carson, Nevada
McCoy Chappell.....	Lompoc, California
Conrad Deichmiller.....	San Francisco, California
John Alvin Gibbon.....	San Francisco, California
Gilbert Fuller Graham.....	San Francisco, California
Robert Frederick Gray .....	San Francisco, California
Walter Simpson Jewell.....	Oakland, California
James William Likens.....	San Francisco, California
William O'Rourke.....	Oakland, California
Henry Powell, Jr.....	Haywards, California
Walter Judson Taylor.....	Sacramento, California
Leander Van Orden, M. D.....	San Francisco, California
Thomas Augustus Vogel.....	San Francisco, California
David John Vogelmann.....	Vallejo, California
Walter Irving Wilcox.....	San Francisco, California
Charles Custar Wood.....	Modesto, California
William Henry Wadsworth.....	Ukiah, California

\* Deceased.

# 1894-95.

William Amos Atwood.....	San Francisco, California
Frederick Richard Axton.....	San Francisco, California
Thomas Francis Barrett.....	San Francisco, California
Herbert Andrew Bernard.....	Bakersfield, California
John Nicholas Borger.....	San Francisco, California
John Bennett Bowles.....	Guatemala, Central America
James Albert Brown.....	San Francisco, California
Louis Ettienne Brun, B. S.....	San Francisco, California
Byron Leonard Carpenter.....	Poplar, California
Ralph Charles Coleman.....	San Francisco, California
David Milton Coney.....	San Francisco, California
Eugene Morris Dodson.....	Paso Robles, California
Oscar Plank Fitch.....	Placerville, California
James Garrett Fitzgibbon.....	San Francisco, California
Arthur Morris Flood.....	San Francisco, California
Arthur James Ford.....	Taylorville, California
Reuben Lyon Hale.....	Martinez, California
Eminel Potter Halsted.....	San Francisco, California
John Ross Hardy.....	Boston, Mass.
Charles Peter Hauselt.....	San Francisco, California
Edward Shortridge Holloway.....	College City, California
Joseph Arthur Jeffrey.....	San Francisco, California
William Berridge Ludlow.....	Oakland, California
Frances Asbury McCan.....	Stockton, California
Amiel Morris.....	Woodland, California
Robert Emmett O'Connell.....	San Francisco, California
Clarence Hubert Pearce.....	Watsonville, California
Robert Henry Porterfield.....	San Francisco, California
Fred Earl Sawyer.....	San Rafael, California
Leo Sichel.....	San Francisco, California
Walter E. Singleton.....	San Francisco, California
Robert Washington Smith.....	San Francisco, California
Harley Howard Stephenson.....	Sacramento, California
Edward Lord Strain*.....	San Francisco, California
Arthur Livingston Tibbitts.....	Livingston, California
Newton Booth Wachhorst.....	San Francisco, California
Edwin Ruthven Waterman.....	San Francisco, California
Frederick Heilbron White*.....	San Francisco, California

# 1895-96.

William Henry Abbay.....	Oakland, California
Henry Abraham.....	San Francisco, California
George Abrams.....	San Francisco, California
Marilda Jane Ayers.....	San Francisco, California
Frederick Guernsey Baird.....	San Francisco, California
Mary Louise Baird.....	San Francisco, California

\*Deceased



Bertram Carl Boeseke.....	San Francisco, California
Franklin Calvin Bonnel.....	Hollister, California
Charles Harold Bowman.....	San Francisco, California
Albert Cafferata.....	San Francisco, California
Paul Tulane Carrington.....	Bangkok, Siam
Harry George Chappel.....	Oakland, California
William Nathan Clark.....	Watsonville, California
Frank Herman Cranz.....	San Francisco, California
Jacob Cohn.....	Boise City, Idaho
Stephen Joseph Cunningham.....	San Francisco, California
William Edward Davis.....	San Francisco, California
James Morton Forrest, Jr.....	Los Gatos, California
Arthur A. Fowler.....	San Jose, California
H. Edward Gedge.....	San Francisco, California
Amy Maxted Gilbert *.....	San Francisco, California
Charles Daniels Gilman.....	Oakland, California
Lawrence Greenbaum.....	San Francisco, California
Richard Geo. Cornelius Harms.....	Oakland, California
Charles Edwin Hart.....	Pacific Grove, California
Arthur Philip Harth.....	Grant's Pass, Oregon
George Morgan Harris.....	Oakland, California
Alexander Hamilton Hawley.....	Sacramento, California
George Henry Haynes.....	Victoria, B. C.
Samuel William Hilliard.....	San Francisco, California
Guy Brown Husted.....	Modesto, California
Konrad Magnus Lundborg.....	San Francisco, California
Stephen Cholmeley Maynard.....	San Jose, California
Naoma Gae MacDonald.....	San Francisco, California
Robert B. McNutt.....	San Francisco, California
Thomas Snelling Morden.....	Boise City, Idaho
Fred Gustave Pless.....	San Francisco, California
Charles Bruce Porter, Jr.....	San Francisco, California
Joseph Ignatius Richards... ..	San Francisco, California
Leon Joseph Roth.....	Los Angeles, California
Anna Martin Sawyer.....	San Francisco, California
John Herbert Seager, A. B.....	San Francisco, California
Frank Joseph Smith.....	San Jose, California
George Edward Stallman.....	San Francisco, California
Benjamin Mitchell Stich.....	San Francisco, California
Montgomery Thomas.....	Fresno, California
Oscar Tobriner.....	San Francisco, California
Clifford Todd.....	Sacramento, California
William Henry Ware.....	San Francisco, California
Lauren David Webster.....	San Jose, California
Clyde Allen Weldon.....	Sacramento, California
Edward William Westphal.....	San Francisco, California

\*Registered "Rowland."



1896-97.

Julian Woods Ashley.....	Oroville, California
Benjamin Avery Bosqui.....	San Francisco, California
Edwin Andrews Clay.....	San Buenaventura, California
Charles Alfred Coffin.....	Reno, Nevada
Orville Mirtland Colburn.....	Woodland, California
Asa Weston Collins.....	Redwood City, California
Medora Vaux Croall.....	San Francisco, California
Stephen Russell Cushing.....	San Jose, California
George Samuel Donnelley.....	San Francisco, California
Judge Haley Durham .....	Irvington, California
Edward Sewell Fiske.....	San Francisco, California
Howard West French.....	Oakland, California
Ray Edson Gilson.....	Oakland, California
Herman Peirce Hanson.....	San Jose, California
Frederick William Harnden.....	San Francisco, California
William Merced Herrington.....	San Francisco, California
Theodore Shelton Higgins.....	San Francisco, California
William Robin Holladay.....	Los Angeles, California
Walter Renwick Hughes.....	Alameda, California
Charles Fitz-Howard Jarvis.....	Oakland, California
Frank D. Johnson.....	Chico, California
Paul Clinton Jones.....	San Francisco, California
Edmond Douglas Keeffe.....	San Francisco, California
Louis Joseph Kerwin.....	Westside, California
Clair Cutting Marckres.....	San Jose, California
Charles Joseph McCarthy.....	Napa, California
Milton McMurray.....	Crescent City, California
Julius Ira Morris.....	Los Angeles, California
James Arthur Plunkett.....	Oakland, California
Thomas Hopkins Quirk.....	Virginia City, Nevada
George Washington Raymond.....	San Francisco, California
Harry Clendenin Reynolds.....	Upper Lake, California
Frank Oniska Robinson.....	Petaluma, California
Helen May Rulison.....	San Francisco, California
Edward Weld Russell.....	Livermore, California
Fannie Elsie Scott.....	Oakland, California
Edwin Matthew Stealey.....	San Francisco, California
Henry Stiles.....	San Jose, California
Charles Maurice Sumner.....	San Jose, California
George Henry Tompkins.....	Calistoga, California
Edward Albright Upton.....	Oakland, California
Martin Wachs.....	Oakland, California
Thomas Rattray Wheeler.....	Concord, Massachusetts

1897-98.

Henry Graham Allen.....	San Francisco, California
John Hugh Atkins.....	San Francisco, California

Perley Bosworth Aiken.....	Oakland, California
Mabel Lucile Beers.....	San Francisco, California
Jean Cline.....	Portland, Oregon
John Hill Cooper.....	Campbell, California
Homer Theodore Craig.....	Oakland, California
Charles Hall Du'Bois.....	San Rafael, California
Andrew Lewis Edwards.....	San Francisco, California
Weston Burgess Estes.....	Sacramento, California
Hartley Williams Gottenberg .....	Oakland, California
Norman Sherwood Halsey.....	Oakland, California
William Daniel Henderson.....	Berkeley, California
Andrew Jackson Hiniker.....	San Rafael, California
Ira Loomis Hinckley.....	Fillmore, California
Perley Centennial Jones.....	Pacific Grove, California
Minnie Evangeline Jordan.....	Ontario, California
Charles Fisher Lemmon.....	San Francisco, California
William Raymond Linscott.....	Santa Cruz, California
Flora Mae MacDonald.....	San Francisco, California
Louis Paul Mariotte.....	Oakland, California
Charles Luttrell McPike.....	Vallejo, California
Hubert Oscar Francis Menton.....	Santa Clara, California
Charles Leonard Morey.....	Oakland, California
Frederick Bright Pearce.....	San Jose, California
Jerome Bonaparte Painter.....	San Francisco, California
Helen Agnes Parker.....	Oakland, California
Armstrong Cooper Pratt.....	San Bernardino, California
Alfred Currie Rulofson, Jr .....	San Francisco, California
George E. Schillig.....	Yuba City, California
Franklin Trewick Scott.....	Ellensburg, Washington
Frank Convers Sellwood.....	Salem, Oregon
Ernest Kirkpatrick Sisson.....	San Mateo, California
Thomas Martin Smith.....	San Jose, California
Walter Joseph Smyth.....	Oakland, California
Joseph Mehlert Stalder.....	Oakland, California
George Grant Stanford.....	San Francisco, California
Charles Joy Stephens, A. M.....	Paris, Kentucky
George Henry Stewart.....	San Francisco, California
William Alfred Walden.....	Stockton, California
Frank Dilts Watkins.....	San Jose, California
Caleb Russell Wilcoxon.....	San Francisco, California
Jean Irene Worthington.....	San Francisco, California
George Henry Wymore.....	Melitta, California

N.B.—Graduates are requested to forward their correct addresses to the Dean.

### COMMENCEMENT, 1897-1898.

---

The Sixteenth Commencement Exercises of the College of Dentistry of the University of California were held at Berkeley on Wednesday, May 18, 1898, at 10 o'clock A. M., conjointly with the Commencement Exercises of the Academic Department.

This plan has been followed before by the Medical Department with some satisfaction both to students and faculty, and will in all probability be adopted by the other Professional departments.

The exercises being general in character, admit of no special features such as we have heretofore enjoyed. The conferring of Degrees is of necessity a formal ceremony as it includes every Degree conferred at Berkeley with the added Degrees of participating departments located in San Francisco. The University spirit that prevails cannot help but exert a powerful influence upon those of our students fortunate enough to enjoy this privilege.

## THE ALUMNI ASSOCIATION

OF THE

COLLEGE OF DENTISTRY, UNIVERSITY OF CALIFORNIA.

---

The objects of this Society are to sustain and advance the prosperity of our ALMA MATER, by cultivating a fraternal feeling among the Alumni, by aiding in all efforts to elevate the standard of Dental Education, and extending the progress of Dental Science and Art.

At the last annual meeting the following resolution was adopted :—

*Resolved*, That all graduates that have not allied themselves with this Association, and the Class of '96, be invited to affiliate at the coming midsummer meeting, without the cost of an admission fee.

*Two meetings* are held yearly: one on the evening of the annual College Commencement (followed by the annual Alumni banquet), and the other during the mid-term of the College, subject to the call of the Executive Committee.

The following officers have been elected for the current year:—

PRESIDENT....ALLEN H. SUGGETT, D. D. S.

VICE-PRESIDENT....MARTIN J. DUNN, D. D. S.

REC. SECRETARY..GEORGE F. RODDEN, D. D. S.

COR. SECRETARY..WM. M. HERRINGTON, D. D. S.

TREASURER.....P. C. ERHARDT, D. D. S.

### *EXECUTIVE COMMITTEE.*

C. A. LITTON, D. D. S.                      E. A. UPTON, D. D. S.

H. E. GEDGE, D. D. S.                      D. M. CONEY, D. D. S.

ALBERT CAFFERATA, D. D. S.

All Alumni are urgently requested to identify themselves with the Association, and to assist in promoting its welfare and advancing its objects.



# CALIFORNIA COLLEGE OF PHARMACY.

---

## FACULTY.

---

MARTIN KELLOGG, A. M., LL. D., President of the University of California.

HERMANN H. BEHR, M. D., Emeritus Professor of Botany.

JOHN CALVERT, Ph. C., Emeritus Professor of Pharmacy.

WILLIAM T. WENZELL, M. D., Ph. G., Ph. M., Professor of Physics and Chemistry.

WILLIAM M. SEARBY, Ph. C., Professor of Pharmacy, Director of the Pharmaceutical Laboratory, and DEAN.

J. J. B. ARGENTI, Ph. G., Professor of Botany, Materia Medica, Microscopy, Vegetable Histology and Pharmacognosy.

FRANK T. GREEN, Ph. G., Professor of Analytical Chemistry, and Director of the Analytical Laboratory.

C. HADLEY CARLSON, M. D., Lecturer on Physiology.

H. R. WILEY, A. B., LL. B., Lecturer on Pharmacal Jurisprudence.

ROBERT A. LEET, Ph. G., Instructor in Chemistry.

J. S. WARREN, Ph. G., Instructor in Pharmacy and Assistant in the Pharmaceutical Laboratory.

O. A. WEIHE, Ph. G., Instructor in Materia Medica.

L. W. BAHNEY, Ph. G., Instructor in Microscopy, Vegetable Histology and Pharmacognosy.

---

The College is equipped with every requisite for teaching the various branches pertaining to Pharmacy, including an expensive Materia Medica Museum and three Analytical, Pharmaceutical, and Microscopical Laboratories.

*The requirements for admission are as follows:—*

1. Applicants must be at least eighteen years of age, except in the case of graduates of High Schools of this State, who are admitted irrespective of age. (While it is advisable that students shall have one or two years practical training in a drugstore before entering the College, this is not compulsory.)

2. Applicants will be accepted who bring any of the following credentials:—

(a) Certificates of graduation from High Schools of this State.

(b) Diplomas of graduation from schools or academies accredited by the State University. (See Register of the University of California, 1894, page 39.)

(c) Certificates of high standing in other institutions of the collegiate grade.



(d') Diplomas from Normal Schools of this State.

(e) First grade teachers' certificates of this State.

(f) Certificates of having completed satisfactorily the first year's course in High Schools of this State.

3. Applicants who do not present any of the foregoing credentials will be examined in the following branches:—

(a) English.—They will be required to show their ability in spelling, punctuating, use of capitals, grammatical construction, and correctness of expression (The handwriting will be estimated, and form a part of this examination.)

(b) Geography.—American and General.

(c) Free-hand drawing.

(d) Arithmetic: Fundamental rules; fractions, common and decimal; denominate numbers; percentage; proportion.

(e) Algebra: Fundamental rules; fractions; equations of the first degree, consisting of two or more unknown quantities.

(f) Latin: Rudiments; declensions of nouns, pronouns, adjectives; conjugations of verbs; translation of simple sentences from Latin to English, and English to Latin.

Applicants who fail to obtain the required percentage in free-hand drawing and Latin may be entered conditionally, but will be required to pass the examination satisfactorily in these studies at the close of the Junior Lecture Course.

The curriculum consists of two courses, of eight months each. The next term will commence September 15th.

Lectures and Demonstrations are delivered in Chemistry, Botany, Physics, Physiology, Materia Medica, Microscopy, and Pharmacy. The Laboratories are under charge of Professors Green, Searby, Argenti, and assistants.

In every respect, this College keeps abreast of the leading Colleges of Pharmacy in the country, adopting the most approved methods of teaching, and keeping pace with the rapid advances of pharmaceutical science.

---

For prospectus, terms, and further information, address

W. M. SEARBY,

*Dean of the Faculty.*

400 Sutter Street, San Francisco.

SAN FRANCISCO POLYCLINIC:  
POST-GRADUATE MEDICAL DEPARTMENT OF THE  
UNIVERSITY OF CALIFORNIA

---

A SCHOOL OF CLINICAL MEDICINE FOR GRADUATES OF COLLEGES  
OF REGULAR MEDICINE.

---

MARTIN KELLOGG, A. M., LL.D., President of the University.

---

LOUIS BAZET, M. D., Professor of Genito-Urinary Surgery.  
HENRY KREUTZMANN, M. D., Professor of Gynecology and Obstetrics.  
MARTIN REGENSBURGER, M.D., Professor of Venereal Diseases and Dermatology  
GEORGE F. SHIELS, M. D., C. M. (Edin.), F.R.C S.E., Professor of Surgery.  
HENRY L. WAGNER, M. D., Ph. D., Professor of Rhinology and Laryngology.  
W. E. HOPKINS, M. D., Professor of Ophthalmology.  
W. A. MARTIN, M. D., Professor of Ophthalmology.  
W. H. MAYS, M. D., Professor of Gynecology.  
LEO NEWMARK, M. D., Professor of Neurology.  
WASHINGTON DODGE, M. D., Professor of Medicine.  
A. MILES TAYLOR, M. D., Professor of Gynecology.  
GEORGE W. MERRITT, M. D., Professor of Otology.

There is an ample supply of clinical material from the large number of cases attending the free clinics of the Polyclinic. Clinics are also held at the following hospitals: St. Mary's Hospital, in Gynecology; City and County Hospital, in Surgery, Genito-Urinary Surgery, Gynecology and Ophthalmology; the Children's Hospital, in Ophthalmology; St. Luke's Hospital, in Gynecology.

Tickets are sold for six weeks' courses in any of the classes. These courses may begin at any time.

**Bacteriology.**—The laboratory is now open to students.

Special arrangements may be made for courses in operation and technical work in any of the classes to meet the needs of students.

**New Building.**—The Polyclinic now occupies its own building, designed especially for its work. It contains a large lecture-room, seven clinic-rooms, drugstore, waiting-rooms, reading-rooms, and a Laboratory completely equipped for Bacteriological Studies.

For more specific information, address

SECRETARY SAN FRANCISCO POLYCLINIC,

410 ELLIS STREET, SAN FRANCISCO.

# UNIVERSITY OF CALIFORNIA.

## VETERINARY DEPARTMENT.

### FACULTY.

W. F. EGAN, M. R. C. V. S., Professor of Principles and Practice of Veterinary Surgery and Equine Medicine.

S. J. FRASER, B. A., M. D., Professor of Physiology and Histology.

FRANK W. SKAIFE, D. V. S., M. R. C. V. S., Professor of Helminthology, Canine Medicine and Surgery, and Dermatology.

K. O. STEERS, V. S., Professor of Therapeutics and Botany.

### LECTURERS.

THOMAS MACLAY, M. R. C. V. S., Professor of Bovine Medicine and Obstetrics, and Veterinary Sanitary Science.

GUIDO E. CAGLIERI, M. D., Lecturer on Pathology and Bacteriology.

J. OTIS JACOBS, D. V. S., Lecturer on Anatomy and Comparative Anatomy.

F. T. GREEN, PH. G., Lecturer on Chemistry and Toxicology.

### Special Lecturers.

PROF. W. F. McNUTT, M. D., L. R. C. S., L. R. C. P., (Edin.), Professor of the Principles and Practice of Medicine, University of California.

PROF. WILLIAM WATT KERR, M. A., M. D., (Edin.), Professor of Clinical Medicine, University of California.

PROF. JOSEPH LeCONTE, A. M., M. D., LL. D., Professor of Geology and Natural History, University of California.

PROF. W. RITTER, M. A., Assistant Professor of Biology, University of California.

### DEAN.

F. W. SKAIFE, D. V. S., M. R. C. V. S., 30 Cedar Avenue.

### SECRETARY.

K. O. STEERS, V. S., 30 Cedar Avenue.

### HOUSE SURGEONS.

W. F. EGAN, M. R. C. V. S., Horses, Cattle, etc.

F. W. SKAIFE, D. V. S., M. R. C. V. S., Dogs, etc.

### COURSE OF STUDY.

The curriculum of this College comprises the fundamental sciences, and covers a period of three winter sessions, of over six months each, commencing on the first day of October of each year, and extending to the end of March of the following year. The theoretical instruction will

be by didactic lectures, class demonstrations and recitations. The facilities for instruction are equal to any in this country, and the courses extend from the first elements of Medicine to the latest researches in Veterinary Science at home and abroad. The student will be trained under the special guidance of Professors in all the practical and technical details of the profession. The following are the studies:—

*First Year*—Chemistry and Materia Medica.

Elements of Physiology and Histology.

Anatomy.

Dissection.

Botany.

*Second Year*—Physiology and Comparative Physiology.

Anatomy of the Domesticated Animals and Comparative Anatomy.

Principles and Practice of Veterinary Surgery.

Principles and Practice of Equine Medicine.

Principles and Practice of Bovine Medicine.

Materia Medica.

Analytical and Organic Chemistry.

Toxicology.

Dissection.

Clinical Instruction.

Therapeutics.

*Third Year*—Principles and Practice of Veterinary Surgery.

Principles and Practice of Equine Medicine and Dermatology.

Principles and Practice of Bovine Medicine.

Principles and Practice of Canine Medicine and Helminthology.

Veterinary Obstetrics.

Bacteriology.

Pathological Anatomy.

Veterinary Hygiene.

Clinical Instruction.

Therapeutics.

THE LIBRARY OF THE

FEB 26 1931

UNIVERSITY OF ILLINOIS.

Lectures on special subjects will be delivered from time to time throughout the session.

The second and third year students, besides attending the clinics must serve as aids in the Hospital, and the third year they will be placed in charge of sick animals, and required to make autopsies.

The College will open October 3rd, 1898, and on that date the matriculation examination will be held.

For prospectus, terms, and further information, address

DR. STEERS,  
30 Cedar Avenue.







College of **DENTISTRY**

OF THE

**UNIVERSITY OF CALIFORNIA**



COR. MARKET AND TAYLOR STS., S. F.

**EIGHTEENTH SESSION**



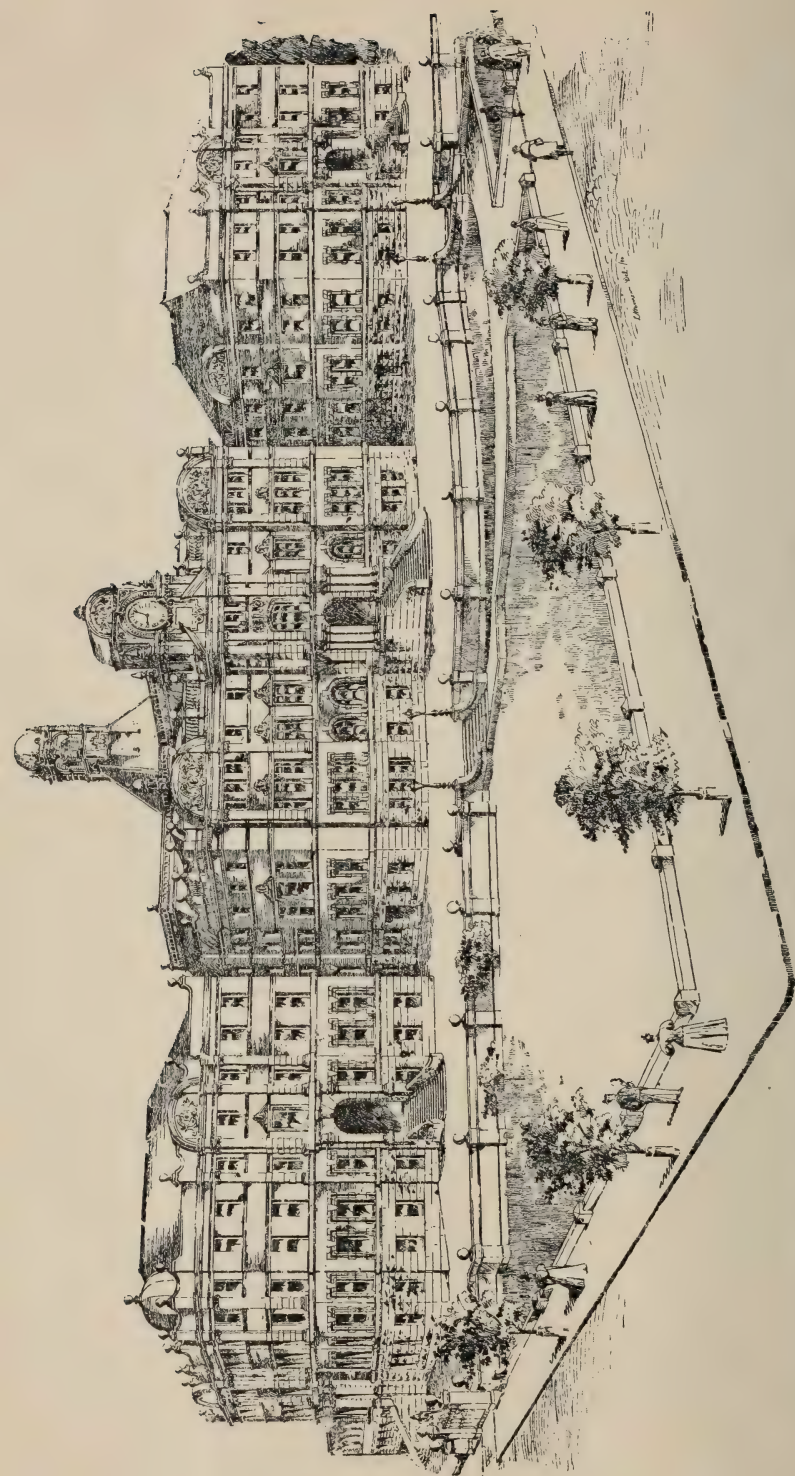
Commencing Monday, Sept. 4, 1899 and Ending May 31, 1900



THE LIBRARY OF THE

FEB 26 1931

UNIVERSITY OF ILLINOIS.



DEPARTMENTS OF DENTISTRY, PHARMACY, MEDICINE AND LAW OF THE UNIVERSITY OF CALIFORNIA.



# ANNOUNCEMENT

OF THE

## COLLEGE OF DENTISTRY

OF THE

### UNIVERSITY OF CALIFORNIA

FOR ITS

### EIGHTEENTH SESSION

COMMENCING SEPT. 4, 1899, AND ENDING MAY 31, 1900.

---

*N. B.—Those who wish to receive the announcement are requested to forward their Names and Addresses to the Secretary.*

---

SAN FRANCISCO

WALTER N. BRUNT, PRINTER

1899



# UNIVERSITY OF CALIFORNIA.

## BOARD OF REGENTS.

### EX-OFFICIO REGENTS.

HIS EXCELLENCY HENRY T. GAGE.....	Sacramento
<i>Governor, ex-officio President of the Board.</i>	
HIS HONOR JACOB H. NEFF.....	Auburn
<i>Lieutenant Governor.</i>	
HON. ALDEN ANDERSON.....	Suisun
<i>Speaker of the Assembly.</i>	
HON. T. J. KIRK.....	Sacramento
<i>State Superintendent of Public Instruction.</i>	
HON. ADOLPH SPRECKELS.....	San Francisco
<i>President of the State Agricultural Society.</i>	
E. A. DENICKE, Esq.....	San Francisco
<i>President of the Mechanics' Institute.</i>	
BENJAMIN IDE WHEELER, Ph. D.....	Berkeley
<i>President of the University.</i>	

### APPOINTED REGENTS.\*

NAME	ADDRESS	TERM EXPIRES
CHARLES W. SLACK.....	309 Montgomery Block, S. F...	1910
ANDREW S. HALLIDIE, Esq.....	33 Market St., S. F.....	1908
HON. WILLIAM T. WALLACE.....	799 Van Ness Ave., S. F.....	1902
JAMES A. WAYMIRE.....	Alameda.....	1908
J. F. HOUGHTON, Esq.....	223 Mission St., S. F.....	1904
ISAIAS WILLIAM HELLMAN, Esq.....	Nevada Bank, S. F.....	1902
ARTHUR ROGERS, B. S., LL. B.....	309 Montgomery St., S. F.....	1906
HON. HENRY S. FOOTE.....	U. S. Appraisers' Bldg., S. F...	1900
ALBERT MILLER, Esq.....	532 California St., S. F.....	1906
CHESTER ROWELL, M. D.....	Fresno.....	1910
JACOB BERT REINSTEIN, A. M.....	217 Sansome St., S. F.....	1912
JOHN E. BUDD.....	Stockton.....	1900
MRS. PHEBE A. HEARST.....	Mills Building, S. F.....	1904
STEPHEN M. WHITE.....	Los Angeles.....	1914
GEO. C. PARDEE.....	672 11th Street, Oakland.....	1914
HON. W. H. L. BARNES.....	Crocker Building, S. F.....	1912

Regular meetings of the Board of Regents are held thirteen times a year, viz.: In San Francisco, on the second Tuesday of each month; in Berkeley, on the day preceding Commencement in the College of Letters and the Colleges of Science.

\*In the order of original appointment.

# UNIVERSITY OF CALIFORNIA.

---

## COLLEGE OF DENTISTRY.

---

DONOHUE BUILDING, CORNER OF MARKET AND TAYLOR STREETS,  
SAN FRANCISCO.

---

### FACULTY.

- BENJAMIN IDE WHEELER, Ph. D., President of the University, and  
*ex-officio* President of the Faculty.  
JOSEPH LeCONTE, M. D., LL. D., Honorary Professor of Biology.  
W. E. TAYLOR, M. D., Emeritus Professor of Surgery.  
L. L. DUNBAR, D. D. S., Emeritus Professor of Operative Dentistry.  
C. L. GODDARD, A. M., D. D. S., Professor of Orthodontia; Dean.  
MAURICE J. SULLIVAN, D. D. S., Professor of Dental Pathology,  
Therapeutics, and Materia Medica.  
WILLIAM B. LEWITT, M. D., Professor of the Principles and Practice  
of Surgery.  
A. L. LENGFELD, M. D., Professor of Chemistry and Metallurgy.  
A. A. D'ANCONA, A. B., M. D., Professor of Physiology and Histology,  
Secretary.  
J. M. WILLIAMSON, M. D., Professor of Anatomy.  
W. F. SHARP, D. D. S., D. M. D., Professor of Mechanical Dentistry.
- 

### LECTURERS, DEMONSTRATORS AND ASSISTANTS.

- HARRY P. CARLTON, D. D. S., Lecturer on Operative Dentistry.  
H. R. WILEY, A. B., LL. B., Special Lecturer on Dental Jurisprudence.  
CHARLES A. LITTON, D. D. S., Superintendent of Infirmary.  
M. J. SULLIVAN, D. D. S., Instructor in Clinical Operative Dentistry.  
J. D. HODGEN, D. D. S., Assistant in Chemistry and Metallurgy.  
H. D. NOBLE, D. D. S., Instructor in Orthodontia Technic.  
JAMES G. SHARP, M. D., D. D. S., Assistant to the Chair of Physiology  
and Histology.  
BENJ. M. STICH, D. D. S., Demonstrator of Operative Dentistry.  
WM. M. HERRINGTON, D. D. S., Instructor in Clinical Mechanical  
Dentistry.  
CHAS. P. HAUSELT, D. D. S., Demonstrator of Mechanical Dentistry.  
OSCAR TOBRINER, M. D., D. D. S., Demonstrator of Oral Surgery.  
F. W. HARNDEN, D. D. S., Instructor in Operative Technic.

**JUNIOR ASSISTANTS.**

CHAS. H. BOWMAN, D. D. S.....	Assistant Demonstrator
CHAS. B. PORTER, JR., D. D. S.....	“ “
EDMOND D. KEEFFE, D. D. S.....	“ “
JOSEPH A. JEFFREY, D. D. S.....	“ “

---

**CLINICAL STAFF.**

L. VAN ORDEN, M. D., D. D. S., Director of Clinics.....	San Francisco
R. F. GRAY, M. D., D. D. S.....	San Francisco
J. P. PARKER, D. D. S.....	Santa Cruz
F. L. PLATT, D. D. S.....	San Francisco
C. E. POST, D. D. S.....	San Francisco
W. E. PRICE, D. D. S.....	San Francisco
MAX SICHEL.....	San Francisco
A. H. SUGGETT, D. D. S.....	Marysville
E. L. TOWNSEND, D. D. S.....	Los Angeles
A. H. WALLACE, D. D. S.....	San Francisco
A. N. COPSEY, D. D. S.....	San Francisco
GEO. H. CHANCE, D. D. S.....	Portland, Or
W. I. WILCOX, D. D. S.....	San Francisco
CONRAD DEICHMILLER, D. D. S.....	San Francisco



## CALENDAR FOR 1899=1900.

**1899.**

Friday and Saturday, September 1st and 2d	}	Preliminary Examination
Wednesday, Thursday and Friday September 6th, 7th and 8th	}	Examination for Conditions
Monday, September 4th.....		Beginning of Term
Saturday, September 9th.....		Holiday (Admission Day)
Thursday, November 23d	}	Thanksgiving Recess
Saturday, November 25th		
Monday, December 18th	}	Christmas Vacation (three weeks)
Saturday, January 8th, 1900		
Thursday, February 22, 1900.....		Holiday (Washington's Birthday)
Friday, March 23d.....		Charter Day (University of California)
April 3rd to April 26th.....		Senior Examination in Infirmary
May 7th to May 12th.....		Senior Examinations
May 21st to May 26th.....		Junior and Freshman Examinations
May 31st.....		End of Term
May 31st to September 1st.....		Special Clinical Courses

All communications should be addressed to Dr. A. A. D'Ancona,  
Secretary of the Faculty.

## EIGHTEENTH SESSION

1899-1900

---

THE COLLEGE OF DENTISTRY OF THE UNIVERSITY OF CALIFORNIA begins its Eighteenth Session on Monday, Sept. 4th, 1899, with increased facilities in every department and under conditions more favorable than heretofore for a systematic training of students for the practice of dentistry in accordance with modern requirements. It stands in the front rank of technical schools, maintaining the standard for which its founders have striven.

It is a matter for congratulation that its graduates take rank with the foremost wherever they go, both in professional training and general culture, and its diploma is accorded recognition by Boards of Registration in most of the States of the Union as well as in many foreign countries.

The increased requirements of last term were met by a large attendance of thoroughly well-equipped matriculates, most of whom were exempt from the entrance examination at its advanced standard.

---

### LOCATION.

The College at present is situated at 1170 Market street, occupying the entire top floor and part of another in the Donohoe Building, which, with its arrangement of rooms and general equipment, secures all that could be desired in any first-class dental college.

On the preceding page there is presented a perspective view of the new buildings erected by the State of California for the professional departments of the University, the cornerstone of which was laid Saturday, March 27, 1897, with imposing ceremonies. The munificence of the State in its appropriation of \$250,000 for the construction of buildings was aided by the generosity of the Hon. Adolph Sutro, who gave

to the University thirteen acres of land beautifully situated south of Golden Gate Park, and commanding a view of the city and vicinity, unsurpassed by any site elsewhere.

When the new building is in every way ready for occupancy the course in the histological, physiological, bacteriological, chemical and metallurgical laboratories, and the didactic lecture courses will be there given, while the clinical courses will be held at the present quarters. For the session of 1899-1900 all the courses will be given at the present quarters.

This marks an era of University extension unequaled in the history of this favored State, and will secure to it a complete University. The desideratum in the professional schools now is the proper endowment of its special chairs by public-spirited citizens, so that the more important of these may be filled by the best instructors in their several specialties, men of ripe scholarship and experience, untrammelled by the cares of active practice, who, by the aid of such endowment, may have opportunity for independent investigation to the glory of the University and State. When this is accomplished, the *greater University* will be an established fact, and those who have passed lives of toil and self-denial as teachers and practitioners, often giving much of the financial results of practice in aid of their ideal, will not have labored in vain.

It is not improbable that the session of 1900-1901 will see the professional departments in full operation in their new home, all under the direction of the Board of Regents, and under conditions that will offer a course of instruction in the College of Dentistry that will challenge comparison anywhere.

In our present situation we have added very much to our course in manual training, and in recognition of the value of operative technic, as well as prosthetic technic, we have enlarged the Freshman curriculum in these departments, so as to furnish each student with graded instruction in practical manipulations under the eye of competent assistants, who are with them daily, and occupy all their time not taken up with lectures. The value of this plan cannot be over-estimated both for instruction and discipline.

The Infirmary is separated entirely from the lecture and class rooms, so that students only come in contact with

patients under direct assignment by the Superintendent. Separate elevators are provided for patients and students, that for patients of the Infirmary being on Market street, and for students at the Taylor-street entrance to the building.

The College building is admirably situated for convenient access, occupying a prominent corner upon the main thoroughfare of the city, contiguous to all lines of cars, direct or by transfer.

The supply of clinic material is very abundant, and during some seasons more than can be served. To the thirty chairs already in use we have added twenty-six more, making fifty-six in all, with accessory cabinets, brackets, etc.

A commodious Senior operating room is also provided for advanced students, in addition to the large operating rooms heretofore in use.

The dental laboratories are on the same floor, and consist of two—one for elementary instruction in Mechanical Technic, and the other for advanced students. These are thoroughly equipped with individual benches, provided with lockers, as well as the latest improved appliances for all kinds of prosthetic work.

Crown and bridge work is a prominent feature of the instruction in the Junior year, followed by advanced work in porcelain construction in the Senior year.

Orthodontia, both didactic and practical, including a course in Orthodontia Technic, is an important part of the curriculum, receiving the entire attention of a specialist in this branch of practice.

The course in Histology will be supplemented by a full laboratory course and practical work with the microscope. Special attention will be given to Section Cutting—both of hard and soft tissues. A suitable room is provided for this purpose, equipped with all the requisites for instruction, including fifteen superior microscopes.

The building is provided with abundant means of egress, in two wide stairways, two elevators, and two outside fire escapes on each side.

All the lectures of the Department will be delivered in the College lecture room, but the work in practical anatomy will



be performed under the superintendence of the Demonstrator of Anatomy, at the College of Medicine of the University of California.

There are seven professors in the College, besides a corps of able and efficient special lecturers and demonstrators. The professors will lecture each week, according to schedule of instruction published in this announcement. Besides the daily clinical instruction under the direction of the demonstrators, special clinics will be given on the third Wednesday afternoon of each month by an auxiliary staff of clinicians, chosen from the experienced practitioners of the State. The staff of clinical instructors is large and is under the charge of a Master of Clinics, who will arrange instructive services for each month during the term. It will also be the aim of the Faculty to supply the Freshman class with a more comprehensive course of technics than has ever been given in a dental school, supplemented by clinics by visiting dentists whenever possible.

The dental laboratories are furnished with benches, lathes, furnaces for melting, forge, rolling mill, continuous gum furnaces, and all other requisites for thorough work. Each student is required to furnish his own instruments and tools, and will be provided with a separate drawer, in which they can be securely locked. Those who have instruments and laboratory tools and appliances should bring them; those who have not, are advised to defer purchasing until they arrive. Lists of instruments and appliances requisite are designated elsewhere, copies of which will be furnished by the Superintendent. During the hours devoted to Operative or Mechanical Dentistry, competent demonstrators will be present to assist the students in their operations.

The Demonstrator of Oral Surgery is in attendance throughout the morning of each day. Material for the practical demonstrations of tooth-extracting and of the use of anæsthetics is abundant. The more serious cases in oral surgery are transferred to the City and County Hospital, in which three beds are now reserved for such cases under the direction of the Professor of Clinical Surgery of the Medical Department and of the Demonstrator of Oral Surgery.

The Superintendent of the Infirmary will receive and



assign patients to the students and will have general supervision of the Infirmary.

As per resolution of the National Association of Dental Faculties, this College requires an attendance upon three full regular courses in separate years before graduation.

This College also endorses the requirements of the National Association of Dental Examiners, and has pledged itself to maintain the standard established.

## SCHEDULE OF STUDY.

*Session of 1899-1900—Term Commences September 4, 1899, and  
Closes May 31, 1900.*

### Order of Lectures and Clinics.

#### FRESHMAN YEAR.

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.
9 A. M. to 11 A. M.	LABORATORY.	LECTURE, Physiology. Dr. D'ANCONA.	LABORATORY.	LECTURE, Physiology. P'f. D'ANCONA	LABORATORY.
10 A. M. to 11 A. M.		LABORATORY.		DISSECTING.	LECTURE, Physiology, Dr. J. G. SHARP.
11 A. M. to 12 M.		LECTURE, Anatomy, Prof. WILL'MSON			LECTURE, Physiology, Dr J. G. SHARP
9 A. M. to 5 P. M.	TECHNIC, Dr. JEFFREY.	TECHNIC, Dr. BOWMAN.	TECHNIC, Dr. PORTER.	TECHNIC.	TECHNIC, Dr. KEEFFE.
1 P. M. to 2 P. M.	Operative Technic, Dr. HARNDEN.		LECTURE, Mechanical Dentistry, Pf. W.F.SHARP		Operative Technic, Dr. HARNDEN.
2 P. M. to 4 P. M.	LABORATORY.	CHEMICAL LABORATORY Dr. HODGEN.	LABORATORY.	LABORATORY.	LABORATORY.
4 P. M. to 5 P. M.					
SATURDAY, 9 A. M. TO 11 A. M.					
MICROSCOPIC TECHNIC, PROF. D'ANCONA.					
SATURDAY, 9 A. M. TO 12 M.					
LABORATORY CLINICS OR SURGICAL CLINICS AT CITY AND COUNTY HOSPITAL.					

ORDER OF LECTURES AND CLINICS—*Continued.*

JUNIOR YEAR.

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.
9 A. M. to 10 A. M.	CLINIC.	CLINIC.	CLINIC.	LECTURE, Mechanical Dentistry, Prof. SHARP	CLINIC.
10 A. M. to 11 A. M.				LECTURE, Anatomy, Prof. WILLIAMSON.	
11 A. M. to 12 M.				LECTURE, Chemistry, P'f. LENGFELD	
11 A. M. to 12 M.	LECTURE. Anatomy, Prof. WILL'N SON				LECTURE, Chemistry, Prof. LENGFELD
9 A. M. to 1 P. M.	DEMONSTRAT'RS Dr. SULLIVAN, Dr. HAUSELT, Dr. TOBRINER.	DEMONSTR'T'S Dr. SULLIVAN, Dr. HAUSELT, Dr. TOBRINER.	DEMONSTR'T'S Dr. SULLIVAN, Dr. HAUSELT, Dr. TOBRINER.	DEMONSTR'T'S Dr. SULLIVAN, Dr. HAUSELT, Dr. TOBRINER.	DEMONSTRAT'RS Dr. SULLIVAN, Dr. HAUSELT, Dr. TOBRINER.
1 P. M. to 5 P. M.	Dr. HERRINGTON Dr. STICH.	Dr. HER'GTON Dr. STICH.	Dr. HER'GTON Dr. STICH.	Dr. HER'GTON Dr. STICH.	Dr. HERRINGT'N Dr. STICH.
1 P. M. to 2 P. M.	LECTURE, Dental Histology Dr. J. G. SHARP.	CLINIC.	CLINICAL INSTRUCTORS. 1 to 3:30 P. M.	CLINIC.	CLINIC.
2 P. M. to 3 P. M.					
3 P. M. to 4 P. M.					
3 P. M. to 4 P. M.		LECTURE, Chemistry, Dr. HODGEN.	3:30 to 4:30 LECTURE, Orthodontia, P'f. GODDARD	LECTURE, Materia Medica, P'f. SULLIVAN.	Orthodontic Technic, Dr. NOBLE.
4 P. M. to 5 P. M.		LECTURE, Pathology and Therapeutics. P'f. SULLIVAN			
5 P. M. to 6 P. M.		DISSECTING.			

SATURDAY, 9 A. M. to 12 M.

OPERATIVE CLINICS AND HOSPITAL CLINICS IN SURGERY.

ORDER OF LECTURES AND CLINICS.—*Continued.*

SENIOR YEAR.

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.
9 A. M. to 10 A. M.	CLINIC.	CLINIC.	CLINIC.	CLINIC.	CLINIC.
10 A. M. to 12 M.					
9 A. M. to 1 P. M.	DEMONSTRAT'RS Dr. SULLIVAN, Dr. HAUSELT, Dr. TOBRINER.	DEMONSTR'T'S Dr. SULLIVAN, Dr. HAUSELT, Dr. TOBRINER.	DEMONSTR'T'S Dr. SULLIVAN, Dr. HAUSELT, Dr. TOBRINER.	DEMONSTR'T'S Dr. SULLIVAN, Dr. HAUSELT, Dr. TOBRINER.	DEMONSTRAT'RS Dr. SULLIVAN, Dr. HAUSELT, Dr. TOBRINER.
1 P. M. to 5 P. M.	Dr. HERRINGT'N Dr. STICH.	Dr. HER'GTON, Dr. STICH.	Dr. HER'GTON, Dr. STICH.	Dr. HER'GTON, Dr. STICH.	Dr. HERRINGT'N Dr. STICH.
1 P. M. to 2 P. M.	Practical Metallurgy, Division A. Dr. HODGEN.	CLINIC.	CLINIC INSTRUCTORS, 1 to 3:30	CLINIC	LECTURE, Mechanical Dentistry, Prof. SHARP.
2 P. M. to 4 P. M.			LECTURE, Orthodontia. P'f. GODDARD 3:30 to 4:30.		LECTURE, Metallurgy, Dr. HODGEN.
4 P. M. to 5 P. M.			LECTURE, Pathology and Therapeutics. P'f. SULLIVAN		CLINIC, Orthodontia, P'f. GODDARD.
5 P. M. to 6 P. M.	QUIZ. Surgery, Prof. LEWITT.	LECTURE, Operative Dentistry, Dr. CARLTON.	P'f. GODDARD.	LECTURE, Surgery, Prof. LEWITT.	LECTURE, Operative Dentistry. Dr. CARLTON.
SATURDAY, FROM 9 A. M. TO 12 M. OPERATIVE CLINICS AND HOSPITAL CLINICS IN SURGERY.					

Surgical Clinics will be held during the term by Prof. W. B. Lewitt whenever opportunity offers.

H. R. Wiley, Esq., Special Lecturer on Dental Jurisprudence, will give one lecture on the third Tuesday of each month during the term at 3 o'clock.

## REQUIREMENTS FOR ADMISSION.

Every candidate for admission must be eighteen years of age, must present to the Faculty satisfactory evidence of a good moral character, and must be examined as to his previous education and fitness to appreciate the technical study of dentistry.

Graduates and Undergraduates of Medicine desiring to qualify themselves for the practice of Dentistry will be governed by the following rules of the National Association of Dental Faculties :—

*Resolved*, That after the Session of 1890-91 a diploma from a reputable Medical College shall entitle its holder to enter the second course in Dental Colleges of this Association, but he may be excused from attendance upon lectures and examinations upon the following subjects. General Anatomy, Chemistry, Physiology, Materia Medica and Therapeutics. (Excelsior, 1890.)

*Resolved*, That the candidates for admission to the Colleges of this Association who are Undergraduates in a reputable Medical College may be admitted to the Junior class, subject to the rules of examination governing admission to that class. (Saratoga, 1891.)

Candidates for admission to advanced standing will be governed by the following rules :—

*Resolved*, That the Colleges of this Association may receive into the Junior or Senior classes only such students as hold certificates of having passed a satisfactory examination in the studies of the Freshman or Junior years, respectively; this certificate is to be a pledge to any College to which they may apply that a previous year has been properly spent in the institution from whence they come. (Chicago, 1885; changed Saratoga, 1891.)

*Resolved*, That applicants for admission to advanced standing from foreign countries shall be required to furnish properly attested evidence of study, attendance upon lectures, etc., the same as required of applicants here, and they shall pass the intermediate examinations. (Chicago, 1885; changed, Saratoga, 1891.)

In accordance with the foregoing, this College will admit students to advanced standing who hold certificates from colleges belonging to the National Association of Faculties that exact a like standard of entrance requirement and curriculum.

Beginning with the Sixteenth Session (September 6, 1897), this College adopted the following rules governing admissions.



### MATRICULATION EXAMINATION.

Students desiring to matriculate are required to undergo examination for admission in the following subjects :—

1. *English.* This examination will pre-suppose a study of English and American literature equal to that pursued in the first year of a high school course. Every candidate will be required also to write an English composition of not less than two hundred words, correct in spelling, punctuation, capital letters, grammar and paragraphing.

2. *Latin.* Refer to Smith's *Principia Latina*, Part I., Collier & Daniels *Latin Lessons*, or an equivalent.

3. *Electives.* For the session of 1899-1900 the applicant must pass satisfactory examinations in studies of the following list headed "Elective," amounting to 5 credits. For the session of 1900-1901 the required number of electives will be seven credits. Thereafter, the number of electives required will be increased to 10 credits.

### ELECTIVE STUDIES.

Physics	Civil Government
Advanced English	Economics
Algebra	Rhetoric ( $\frac{1}{2}$ )
Advanced Algebra ( $\frac{1}{2}$ )	Latin, 2d year
Advanced Arithmetic ( $\frac{1}{2}$ )	Latin, 3d year
Plane Geometry	French, 1st year
Solid Geometry ( $\frac{1}{2}$ )	French, 2d year
Plane Trigonometry ( $\frac{1}{4}$ )	French, 3d year
Spheric Trigonometry ( $\frac{1}{4}$ )	German, 1st year
Chemistry	German, 2d year
Zoology	German, 3d year
Botany	Greek, 1st year
Physical Geography ( $\frac{1}{2}$ )	Greek, 2d year
Geology ( $\frac{1}{2}$ )	Greek, 3d year
Astronomy	German Classics in Eng. ( $\frac{1}{4}$ )
Physiology and Hygiene	French Classics in Eng. ( $\frac{1}{4}$ )
United States History	Latin Classics in Eng. ( $\frac{1}{4}$ )
General History	Greek Classics in Eng. ( $\frac{1}{4}$ )
Greek History ( $\frac{1}{2}$ )	Book-keeping ( $\frac{1}{2}$ )
Roman History ( $\frac{1}{2}$ )	Home Science ( $\frac{1}{2}$ )
English History ( $\frac{1}{2}$ )	Drawing
French History ( $\frac{1}{2}$ )	Manual Training

One "credit" represents the amount of ground covered in a given study in a good high school in one year, with four recitations a week. Fractions printed after the name of a subject indicate the proportion credited for that subject.

In lieu of an examination, certificates will be accepted from the high schools accredited by the Academic Departments of the University of California. Teachers certificates of this State will be accepted in lieu of examinations in the studies which they cover. Blank forms will be sent on application. Conditions imposed at the entrance examinations must be removed before the end of the session.

Applicants intending to take the examination are advised to review their studies before doing so.

---

### PRELIMINARY EXAMINATIONS.

There is a general examination for entrance held each year, on a fixed date, which is conducted by an instructor chosen from the academic departments of the University. Students desiring to enter must present themselves on the date named.

Entrance examinations may be held at places distant from San Francisco at the same time as the regular examinations.

Applicants wishing to take the examination at places other than San Francisco should notify the Secretary before August 10th.

The preliminary examinations for the session of 1899-1900 will be held in San Francisco, at the College building, corner Market and Taylor Streets (entrance No. 18 Taylor Street), September first and second, at 9 o'clock A. M.

All communications should be addressed to Dr. A. A. D'Ancona, Secretary of the Faculty.

---

### THREE YEARS' STUDY.

The three years' course of study is arranged as follows :—

*Freshman Year.*—Anatomy, with dissections; Physiology; Histology, General and Dental, with laboratory courses; Chemistry, with laboratory work; Mechanical Dentistry; Oper-

ative Technic ; Mechanical Technic, Microscopic Technic.

Examinations will be held at the end of the year in all the above branches.

*Junior Year.*—Anatomy, with dissections ; Physiology ; Histology, General and Dental ; Chemistry ; Mechanical Dentistry ; Operative Dentistry ; Pathology, Therapeutics, and Materia Medica ; Orthodontia and Orthodontia Technic, Bacteriology.

Examinations will be held at the end of the year in all the above branches, and will be final in Anatomy, Physiology, Histology, Bacteriology and Chemistry.

*Senior Year.*—Operative Dentistry ; Mechanical Dentistry ; Orthodontia, with practical cases ; Metallurgy, with laboratory work ; Pathology, Therapeutics, and Materia Medica ; Surgery.

---

### REQUIREMENTS FOR GRADUATION.

The candidate for the degree of Doctor of Dental Surgery must have attained the age of twenty-one years, and be of good moral character.

He must have passed a satisfactory examination, oral, written, and practical.

He must have studied dentistry *three* years, including the time spent in attending lectures.

He must have attended three full courses in the College of Dentistry of the University of California, or two years in some other reputable Dental College of like standard of requirements for entrance, and the third or last in this College.

The candidate is required to dissect at least two quarters, upper and lower. He must treat thoroughly some patient requiring all the usual dental operations, and bring such patient before the Professors of Operative Dentistry and Dental Pathology and Therapeutics. He must also complete at least one practical artificial denture, insert at least one crown or piece of bridge-work, and after completion, bring his patient before the Professor of Mechanical Dentistry at least thirty days before the close of the term. He must treat one case of irregularity, under the instruction of the Professor of Orthodontia. He must also prepare a specimen denture, to be

deposited in the College collection, and present the same to the Professor of Mechanical Dentistry at least thirty days before the end of the term. The operating and the work on the artificial cases must be done at the College building, and exclusively by the applicant for the degree.

*No student of this College will be permitted to practice Dentistry illegally while under the jurisdiction of the Faculty. Conviction of such practice will terminate the College career of the offender.*

After these requirements have been complied with, upon the recommendation of the Faculty and approval of the Board of Regents, the candidate will receive the Degree of Doctor of Dental Surgery.

---

#### SCHEDULE OF FEES.

Matriculation.....	\$ 5 00
Tuition Fees (each year).....	100 00
Practical Microscopy (Freshman).....	10 00
Practical Anatomy (first and second years).....	10 00
Fee for Final Examinations (not returnable).....	25 00

The fees for each term must be paid in advance.

---

#### TEXT-BOOKS.\*

The following books will be needed during the course of study. Students are advised to procure the first named in Nos. 1, 2, 3, 4, 5, 7, and 14 of the subjoined list at the beginning of the first year and to add the others before the Senior year :—

1. Dental Dictionary, Harris, or Medical Dictionary, Duane.
2. Anatomy, Gray (13th ed.), Morris, Quain, or Holden.
3. Physiology, Foster, Stewart's Manual.
4. Mechanical Dentistry, Richardson, Harris, or Essig.
5. Operative Dentistry, Kirk, Taft.
6. Dental Chemistry and Metallurgy, Hall.
7. Dental Anatomy, Black, 4th edition.
8. Orthodontia, Guilford, or Kirk & Essig.

---

\*The first-mentioned is the approved text-book.



9. Dental Metallurgy, Hodgen.
10. Dental Materia Medica and Therapeutics, Gorgas or Stockens.
11. Surgery, Moullin, or Am. Text-Book of Surgery.
12. Therapeutics, Wood, Biddle, or Bartholow.
13. Dental Pathology, Burchard, Abbott or Wedl.
14. Chemistry, Roscoe's Elementary Chemistry and Remsen's Introduction to the study of Chemistry.
15. Materia Medica, National Dispensatory or United States Dispensatory.

ADDITIONAL BOOKS FOR REFERENCE.

Oral Surgery, Garretson.  
American System of Dentistry, Litch.  
Histology, Stoehr.  
Microscopical Morphology, Heitzman.  
Pathology, Green.  
Therapeutics, Hare.  
Oral Deformities, Kingsley.  
Nitrous Oxide, Guilford.  
Mechanical Dentistry, Haskell.  
Micro-Organisms of the Human Mouth, Miller.  
Irregularities, Farrar or Talbot.  
Anatomy and Pathology of the Teeth, Böedecker.  
Diseases of the Face, Jaws and associate parts, Marshall.  
Dental Histology, Broome.



## OUTLINE OF THE COURSE OF STUDY.

---

### SPECIAL LECTURES.

Prof. Joseph Le Conte, Professor of Natural History in the University of California, will give in November a short course of lectures on the Role of Bacteria in the Processes of Life and Decay.

Professor W. E. Ritter, Associate Professor of Biology in the University of California, will give three lectures during the last term upon Growth, Reproduction and Heredity.

---

### OPERATIVE DENTISTRY.

The course of instruction in this department will be as comprehensive and thorough as approved appliances and methods can make it, and will embrace both the Didactic and Clinical courses.

Intra and extra-uterine development of the teeth will be fully considered from the *primary* germ to the final loss of the permanent teeth.

The work will consist of a graded system of instruction, beginning with a comprehensive course in Operative Technics in the Freshman year, including a systematic study of tooth sections with silhouettes, and progressive block work, which is a feature of the course in this College, presenting an opportunity for the highest type of dental manipulative training. This is followed in the Junior year by a course in Clinical Technics, assisted by lectures and quizzes.

The Senior year is devoted to practical work in the Infirmary, supplemented by lectures on the principles and practice of Operative Dentistry.

It will be the aim of the department to make the entire course of lectures from this chair as practicable as possible, by a comparison of old and new methods, with a complete analysis of recent innovations in operative procedure, including the use of porcelain restorations.

A course in elementary and advanced Operative Technics will be given to Junior and Freshman students.

## MECHANICAL DENTISTRY.

The instruction in Mechanical Dentistry will embrace everything necessary to enable the dentist successfully to apply substitutes for lost dental organs.

Special reference will be made to the principles involved in the restoration of the natural functions of the teeth, namely: mastication, enunciation, and expression of the features; keeping in view always the health and the future usefulness of the living parts.

The instruction is divided into two courses, as follows :

*Freshman Course.*—Lectures on the treatment of the mouth and teeth preparatory to inserting artificial dentures; impressions in wax and plaster; casts; the manufacture of artificial teeth, their selection and arrangement for special cases; application of atmospheric pressure to artificial dentures; properties and uses in the construction of dentures, of wax, plaster, shellac, sandarach, rubber, and celluloid.

*Junior and Senior Course.*—Lectures on the construction of instruments, of dies and counter-dies, of models of the mouth, and of molds; construction of dentures on bases of gold, silver and aluminum; continuous gum work.

The construction of crown and bridge work will receive especial attention.

---

## ORTHODONTIA.

The subject of Orthodontia has been developed so much during the past ten years that, from occupying a minor part in a course devoted to Mechanical Dentistry, it now occupies the entire time of the former occupant of that chair.

Instruction will be both didactic and clinical. One hour each week will be devoted to lectures on the cause, prevention, and treatment of irregularities. In this course will be included several lectures on Comparative Dental Anatomy, and the making of obturators and artificial vela. The lectures will be illustrated by crayon and blackboard drawings, specimens of all useful appliances, and casts of practical cases, a large number of which have accumulated from private practice and the College Infirmary. By means of the opaque stereopticon, casts are projected on the screen for illustration.

Each week a clinical lecture will be given in the Infirmary, where each Senior student is required to treat a practical case of irregularity. As no two cases are alike, and each student can examine the cases of all the others, an exceptional opportunity is thus given for practical study.

Dr. Noble will give a course in Orthodontia Technic to the Juniors, who will be required to draw wire and tubing, both round and square, make screws and nuts, springs, bands, and all essential forms of regulating appliances. This course will prepare them for the practical work of the Senior year.

---

### PHYSIOLOGY.

The lectures in this department, by Professor D'Ancona, embrace a consideration of both General and Special Physiology, including all that has been developed up to the present time, and are illustrated by a complete series of colored drawings, prepared expressly for these lectures; besides which, the vast collection of preparations and drawings of the Scientific Department at Berkeley are at the command of the Professor. Vivisections are practiced when necessary to demonstrate principles, and the microscope and stereopticon are freely used for illustrating important facts and principles. The course will be supplemented by practical work in the Laboratory.

A course of lectures will be given on Embryology and Histology, and fully illustrated by photo-micrograph reproductions, charts, etc. This course will consist of a full consideration of the following subjects: A general study in the development of the chick and other embryos; the theory of reproduction, ova, segmentation, and the development of the three layers of the blastoderm, cellular morphology, including a comprehensive study of the biological cell, and the nature of protoplasm; the products of the epiblast, including the development of hair, nails, horns, hoofs, sudoriparous glands, and the enamel organ of the teeth. The products of the mesoblast, showing the development of the connective tissue group, including the subject of calcification of bone, dentine, and cement—illustrative of the latter, many charts will be used in the comparative study of hard tissues—and, lastly,

the development of the teeth will be fully considered by aid of a full line of illustrations from human and other embryos.

This will be supplemented by a course in practical work with the microscope, including Section Cutting, Staining and Mounting, under the supervision of Professor D'Ancona, assisted by Dr. James G. Sharp, who will give a full course of laboratory training in Microscopic Technic, which will be a part of the Freshman curriculum, and must be completed in that year.

---

### **SURGERY.**

Professor William B. Lewitt, the Professor of the Principles and Practice of Surgery, will deliver one lecture each week on the Science and Art of Surgery, and devote one hour each week to a surgical clinic or recitation. His course will include General Surgical Principles and Pathology, and such lectures as may seem best adapted to students and practitioners of Dentistry. Also a series of lectures on Anæsthesia and Anæsthetics, both general and local, with clinical illustrations before the class. Particular attention will be devoted to surgical diseases and injuries of the mouth, gums, and jaws, and the students will be instructed in their diagnosis, prognosis, and treatment, both by lectures and clinical demonstrations.

---

### **CHEMISTRY AND METALLURGY.**

Professor A. L. Lengfeld, in his course, will deliver two lectures each week, devoting special attention to that part of Chemistry which pertains more particularly to Dentistry. The lectures will be fully illustrated by means of all the necessary chemical and philosophical apparatus and numerous experiments. The nature, physical and chemical properties of the various remedies employed in Dentistry will be illustrated by the exhibition of crude drugs and pharmaceutical preparations, and by botanical plates and specimens.

The instruction in Dental *Metallurgy* will include lectures and practical laboratory work, the course embracing the theoretical and practical consideration of furnaces, fuels, properties, and uses of all the important metals, their alloys and



compounds of dental interest. Special attention will be given to working steel, hardening and tempering instruments, also to refining and alloying gold and silver.

A thesis on *dental amalgams*, consisting of not more than five hundred or less than three hundred and fifty words, will be required of each candidate for graduation just previous to the final examinations.

### PRACTICAL CHEMISTRY.

A systematic and practical course will be given in Experimental Chemistry, Qualitative Analysis, and Salivary Analysis. Each student is provided with a separate table and a complete set of apparatus and chemicals, and performs individually all experiments and reactions. Two courses in practical chemistry are required.

I. *First Year*.—Following Remsen's Introduction to the Study of Chemistry as a guide, each student will perform a series of experiments in which he will develop the main principles of the science of Chemistry, and become familiar with the physical and chemical properties of the leading families of elements and their compounds.

II. *Second Year*.—The experimental work will be continued. Special regard will be given to Analytical Chemistry and the analysis of the saliva.

---

### PRACTICAL METALLURGY.

Practical laboratory instruction will be given by Dr. Hodgen. Experiments will be made under caption of the various metals, and each student will be required to conduct the same, together with all the usual operations in Dental Metallurgy, as well as experiments of original investigation in new alloys, compounds, preparation of basic zinc cements, gold and silver plate, solder, and foil.

Special attention will be given to the preparation of dental-amalgam alloys, and tests of amalgam plugs made of all practical formulæ will demonstrate the properties of contraction, expansion, flow, edge strength, color, etc., of each. Old



amalgam fillings will be analyzed both qualitatively and quantitatively.

A fee of one dollar will be charged to cover breakage and loss.

---

### ANATOMY.

Professor Williamson's course in Anatomy will be illustrated by demonstrations on the cadaver, and by both wet and dry preparations, models, manikins, drawings, and diagrams, and will include the general anatomy of the entire body, with the special topographical and surgical anatomy appertaining to the head and neck.

The dissecting room is spacious, well ventilated, lighted from above, and provided with modern conveniences. It is open daily throughout the year, under the superintendence of the Professor and Demonstrator of Anatomy. A supply of material is always procurable at small cost. When dissections are conducted in a diligent manner, the student is furnished with certificates stating the amount and part dissected. One of the Demonstrators will be present daily in the dissecting room during working hours, so that students will receive the proper attention and assistance.

An osteological room will be open during the term, where students will have the opportunity of studying the anatomy of bones and articulations. Special demonstrations will be conducted in this room for members of the Freshman class.

---

### DENTAL PATHOLOGY, THERAPEUTICS, AND MATERIA MEDICA.

The lectures delivered by Professor Sullivan will embrace a full and comprehensive course on the following topics :—

I. GENERAL PATHOLOGY.—In which will be discussed those general aspects of diseases with which it is necessary to be acquainted in order to be able to understand the nature of any departure from health ; causes of disease, symptoms, diagnosis, prognosis, temperaments, pathology of anæsthetics, irritation, determination, congestion, effusion, suppuration, ulceration, sloughing, morbid growths, inflammation and its terminations.

2. **SPECIAL PATHOLOGY.**—In which a critical examination will be made into the special causes of dental decay ; dental hygiene and prophylaxis ; diseases of the enamel—of the dentine ; diseases of the dentinal pulp—together with the causes of alveolar abscess—its stages and results ; exostosis of the roots and alveoli ; necrosis and exfoliation ; diseases of the antrum ; tumors, benign and malignant ; diseases of the mucous membrane.

Neuralgia and other nervous affections will receive such attention as their importance may demand ; and besides, there will be presented such other special diseases as may in any degree be of interest to the dental practitioner, such as scurvy, scrofula, rachitis, and other diseases of the bones.

3. **GENERAL PRINCIPLES OF THERAPEUTICS.**—Under which head the general application of medicines will be noticed—their actions, constitutional and topical.

4. **SPECIAL THERAPEUTICS.**—In connection with Dental Materia Medica ; as incidentally related thereto.

5. **MATERIA MEDICA** will be taught by lectures and recitations.

---

### **THE DENTAL LABORATORY.**

The Dental Laboratory will be in charge of the Superintendent of Infirmary, who will assign patients to students, and, with the Demonstrators of Mechanical Dentistry, will give practical instruction in preparing the mouth for the insertion of artificial teeth, taking impressions, selecting and arranging teeth, and the construction of artificial dentures on bases of vulcanite, celluloid, silver, gold, etc.; also in alloying, refining, and preparing the metals for use. Special attention will be given to continuous gum work. On account of the length of the term, the opportunities for practice in correcting irregularities of the teeth will be unsurpassed, and will receive their share of attention.

---

### **THE DENTAL INFIRMARY.**

The Operating Department will be under the immediate supervision of the Superintendent of Infirmary, who will have entire charge.

The rooms will be open during the forenoons of Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, and during the afternoons of each day, except Saturday, until 5 o'clock, when all practical matters pertaining to Operative Dentistry will be fully dealt with by the Demonstrators, one of whom will always be present. The Infirmary will be open throughout the entire year, thus affording a practical course for first and second year students, unsurpassed by any similar institution. As there is always an excess of clinical material on hand, and there are 648 hours per term devoted to practical consideration of diseases of the teeth and the adjacent parts, it is not difficult to estimate the advantages the students have in this department.

---

### DISSECTIONS.

The work in practical anatomy will be performed under the direction of the Demonstrator of Anatomy and his Assistants, in the dissecting room of the Medical Department of the University of California. The dissecting room is open throughout the entire year; a full supply of material is always on hand, at small cost, and is thoroughly preserved from decomposition. Upon the proper completion of the required dissections, the student is furnished by the Demonstrator with a certificate to that effect, which must be presented to the Secretary for record.

The dissecting ticket (\$10) is good for the whole term—from September 1st to August 30st.

---

### CLINICAL INSTRUCTION.

During the course, the third Wednesday afternoon of each month, from 1 to 3, will be devoted to special Clinical lectures and operations by the Professors and visiting clinicians.

---

### HOSPITALS.

All students in Dentistry will have the same facilities and opportunities enjoyed by medical students in hospital practice and observation. They will have the freedom, as above represented, at the City and County Hospital and the City Receiving Hospital.

Medical and Surgical Clinical lectures are given by the Professors of the Medical Department of the City and County Hospital, Tuesdays, Thursdays and Saturdays, from 9 to 12 A. M.; attendance upon which, though not a requirement, is recommended, on account of the unsurpassed facilities for study of anæsthetic methods.

Three beds are reserved for cases in Oral Surgery.

For further particulars on this subject, see Medical Department Announcement.

---

#### LIBRARY AND MUSEUM.

A nucleus has been formed, from which it is hoped a large library and museum will grow. All members and friends of the profession are invited to contribute books, pamphlets and journals, charts, anatomical, physiological and pathological specimens, casts of deformities and irregularities of the teeth and associate parts, or anything that will be useful and instructive.

These contributions will be placed in the library and museum, and marked with the names of the donors, if desired.

*As a separate library and reading room is now provided, a special request is made for books and pamphlets.*

The Faculty gratefully acknowledges donations of books, pamphlets, and specimens from Drs. Jorge Arroyo, John Rabe, F. H. Metcalf, E. L. Townsend and C. A. Litton.

---

**N. B.—Boarding.** The expense of living in the city of San Francisco is very reasonable. Good board, with room rent, may now be procured at the low rate of five dollars per week, at a convenient distance from the College building.

There is a free public library in San Francisco, of which students may have full benefit.

Upon arriving in the city, students will immediately register in the Secretary's office, at the College building, No. 1170 Market Street.



## TOOLS AND APPLIANCES REQUIRED BY FRESHMAN STUDENTS.

FOR LABORATORY WORK.

I Rubber Plaster Bowl.....	\$	.60
I Articulator. White's plain line.....		.90
½ doz. Impression Trays, viz. :		
2 Full Upper, A 1-3; 2 Full Lower, F 1-3;	}	I .50
I Partial Upper, C 13; I Partial Lower, G 13 }		
I Wax Spatula. Beals' pattern.....		.50
I Vulcanite File, double end.....		.45
2 Vulcanite Finishers (Wilson's H. and R.), 1, 2, 3, wood handles		I .00
2 Corundum Wheels, large and small { No. 4, ¼ in.....		.18
{ No. 7, ⅜ in.....		.50
I Felt Wheel for polishing No. 3, 2¼ in.....		.20
I Felt Cone for Polishing.....		.20
I Soft Brush Wheel for Polishing. No. 26, 3 rows, 3 in. diameter		.35
I Stiff Brush Wheel for Polishing. 2 rows, 1½ in. diameter.....		.15
I Brass Blowpipe, plain.....		.15
I Plaster Spatula, 4 in.....		.25
I Plaster Knife. No. 5, Buffalo.....		.50
I Gas Burner, with Spider.....		.75
I Chuck for U. S. Lathe.....		.90
I Lewis Cross-bar Vulcanizer (complete).....		I6.00
I Wrench (adjustable).....		.50

\$25.58

## INSTRUMENTS FOR OPERATIVE TECHNIC.

1 Student's Instrument Case.....	\$ 6.00
1 Coarse Half-round File.....	.50
1 Fine Half-round File.....	.59
1 Tooth Brush, white handle, medium.....	.35
*1 Broach Holder.....	.75
*1 doz. Jeweler's Broaches, fine.....	.25
6 Medicine Bottles.....	.40
*1 pair Foil Carriers.....	1.00
*1 Jennings Case Mallet.....	2.00
*1 Annealing Lamp and Shield.....	.60
*1 Chip Blower.....	.49
*1 Large Arkansas Stone.....	.60
*1 set Flagg's Plastic Instruments.....	3.50
Slab and Spatula for Cements.....	.25
*6 Excavators, selected U. C. Set.....	1.50
3 Chisels (1 straight-edge, 2'R. & L.), U. C. Set.....	.75
*3 Pluggers from College Set.....	1.05

The items marked \* are used in subsequent courses.

\$20.25

All must be provided with the text-book, Black's Dental Anatomy.

N. B.—The above instruments and appliances must be procured by each student and submitted to the Superintendent before his seat is assigned.



## TOOLS AND APPLIANCES REQUIRED BY JUNIOR AND SENIOR STUDENTS.

### FOR LABORATORY WORK.

1 Mechanical Blowpipe.....	\$ 3.50
1 pair Plate Shears, S. S. White.....	1.00
1 pair Plate Nippers, S. S. White.....	2.75
1 pair Flat-nose Pliers.....	.50
1 pair Round-nose Pliers.....	.50
1 Plate Punch.....	2.25
1 Half-round File, fine.....	.25
1 Flat File, fine.....	.25
1 Horn Hammer.....	.38
1 Riveting Hammer, convex face.....	.70
1 pair Long Soldering Pliers.....	.10
1 Soldering Support.....	.75
1 Swage.....	
1 Artificial Plate Brush, Florence plate.....	.50
1 Clasp Bender.....	2.25
1 Triangular File.....	.35
1 Steel Burnisher.....	.50
1 Large Flat File.....	.35
1 Jeweler's Saw-frame and Saws.....	60-15
1 pair Calipers .....	.25
Emery Cloth and Paper.....	.50
Additional Corundum Wheels.....	

### FOR ORTHODONTIA TECHNIC.

Screw Plate.....	\$ 1.25
Draw Plate.....	1.50
Pin Vice.....	.60
Draws Tongs.....	1.00

### JUNIOR AND SENIOR INSTRUMENTS FOR INFIRMARY.

*1 set of Pluggers, U. C. Set.....	\$1.05†	\$ 8.40
*1 Jennings Case Mallet.....	2.00	2.00
*1 doz. Selected Excavators, U. C. Set.....	1.50	2.50
*1 set 6 Chisels, U. C. Set.....	.75	1.25
*1 set Amalgam Instruments (Flagg's).....	3.00	3.00
1 doz. Cavity Burrs for Engine.....		2.25
¼ doz. Plug Finishing Burrs for Engine.....		1.20
1 doz. Assorted Corundum and Rubber Points.....		.50
1 Mandrel.....		.25
¼ doz. Gold Finishing Files.....		1.71
½ doz. R. Dam Clamps.....		2.40
1 R. Dam Holder.....		1.00
1 R. Dam Punch.....		3.50
1 set R. Dam Weights.....		1.00

†The items in this column should be in the outfit of each student from previous purchase.

I pair Wedge Cutters.....		2.25
*I pair Foil Carriers.....	1.00	1.00
I Foil Shears.....		1.00
I pair Clamp Forceps.....		3.00
I Mouth Mirror, magnifying.....		1.00
*I Chip Blower.....	.40	.40
I Water Syringe.....		1.00
I Separating Saw.....		.75
I set of Scalers.....		2.00
I Ball and Blade Burnisher.....		.50
*I Large Arkansas Stone.....	.60	.60
I package Cleansers, No. 4.....		1.25
*I Broach Holder.....	.75	.75
I package Orange Wood.....		.10
I Slab and Spatula for Cements.....	.25 .50	.75
I package Absorbent Cotton.....		.20
I package Spunk.....		.20
I Engine Head, Sleeve, Cable and Hand-piece.....		21.00
I doz. 18-in. White Napkins.....		
Perry or Ivory Separators—Ivory.....		3.50

Students are requested to mark their property for identification.

## STUDENTS OF THE SESSION OF 1898-1899.

### SENIOR CLASS.

NAME	RESIDENCE	PRECEPTOR
Arroyo, Ricardo . . . .	Antigua, Guatem'la	Jorge Arroyo, D. D. S.
Allin, William Robertson . .	Salem, Oregon .	Col. of Dentistry, U.C.
Bacon, William Robert . . .	Alameda, Cal.	Col. of Dentistry, U.C.
Burns, Paul Milton . . . .	San Francisco, Cal.	Col. of Dentistry, U.C.
Barnett, Joseph . . . . .	New York C'y, N.Y.	Col. of Dentistry, U.C.
Baker, Arthur Woodley . . .	San Francisco, Cal.	Col. of Dentistry, U.C.
Blake, Robert Johnson . . .	San Francisco, Cal.	A. E. Blake, M. D., D. D. S.
Burridge, Walter Joseph . .	San Francisco, Cal.	Harry G. Young
Blossom, Miss May . . . .	Carson City, Nev.	Col. of Dentistry, U.C.
Crall, Miss Anna Belle Paterson . . . . .	San Francisco, Cal.	L. Van Orden, D. D. S.
Colegrove, John Albert. . .	Oakland, Cal.	E. L. Dow, D. D. S.
Callender, Monroe N. . . .	San Francisco, Cal.	Geo. A. Merrill
Dunbar Palmer Howard. . .	San Francisco, Cal.	Luis L. Dunbar, D.D.S.
Fairweather, Norman Stanley	San Francisco, Cal.	Chas. Boxton, D. D. S.
Fugler, Cecil Albert . . . .	Santa Maria, Cal.	Col. of Dentistry, U.C.
Grant, Frederick Thomas . .	Healdsburg, Cal.	W. E. Nye, D. D. S.
Gove, George Weston . . . .	Berkeley, Cal . .	Col. of Dentistry, U.C.
Gruss, Francis Joseph . . .	San Francisco, Cal.	Col. of Dentistry, U.C.
Gambitz, Lee Robert. . . .	San Francisco, Cal.	M. R. Gambitz, D.D.S.
Herrmann, Miss Leonore Freida	San Francisco, Cal.	Col. of Dentistry, U.C.
Halsted, James La Fayette, Jr.	San Francisco, Cal.	Col. of Dentistry, U.C.
Hus, Francois Louis Marium .	Oakland, Cal.	Col. of Dentistry, U.C.
Hamlin, Benagah Ralph. . .	Alameda, Cal.	Col. of Dentistry, U.C.
Kuster, Charles Frederick . .	Wheatland, Cal.	Col. of Dentistry, U.C.
Lawson, William Joseph . .	Silver City, Nev.	Col. of Dentistry, U.C.
Likens, George Willis . . .	Carson City, Nev.	J. W. Likens, D. D. S.
Mayhew, William Horace . .	San Francisco, Cal.	Col. of Dentistry, U. C.
Millar, Jas. Benjamin Franklin	San Francisco, Cal.	C. H. Bell, D. D. S.
Mulrenin, Edward Martin . .	San Francisco, Cal.	N. T. Coulson, D. D. S.
Piper, Stephen Livingston . .	San Francisco, Cal.	Col. of Dentistry, U.C.
Parks, Louis Herbert . . . .	Marysville, Cal.	Col. of Dentistry, U.C.
Patterson, Andrew Darwin . .	Visalia, Cal. . .	Col. of Dentistry, U.C.
Renwick, Wallace Hiram . . .	Sacramento, Cal.	W. Wood.
Reich, Charles Louis . . . .	San Francisco, Cal.	Col. of Dentistry, U.C.
River, Joseph Patrick . . . .	San Francisco, Cal.	Col. of Dentistry, U.C.
Sullivan, Abraham Sinclair . .	San Francisco, Cal.	Col. of Dentistry, U.C.
Schiller, Maurice . . . . .	San Diego, Cal.	D. Cave.
Smyth, Thomas Ustick . . .	San Rafael, Cal.	Col. of Dentistry, U.C.
Southworth, Stephen Scott . .	San Rafael, Cal.	E. L. Southworth, D. D. S.
Tennyson, Howard Alan . . .	San Francisco, Cal.	G. F. Nevins, D. D. S.

Tate, Alonzo Walter . . .	Oakland, Cal. . .	S. P. Tate, Jr.
Turner, Miss Rosa Edith . .	Modesto, Cal. . .	Col. of Dentistry, U.C.
Warnekros, William Louis . .	Fresno, Cal. . .	Col. of Dentistry, U.C.
Williams, John Jarvis . . .	Modesto, Cal. . .	Col. of Dentistry, U.C.
White, Arthur Loring . . .	San Francisco, Cal. . .	J. N. Powell.
Whitney, Edward Otis . . .	San Jose, Cal. . .	J. A. Frazer, D. D. S.

### *JUNIOR CLASS.*

NAME.	RESIDENCE.	PRECEPTOR.
Aiken, Geo. Smythe . . .	Paia, H. I. . .	Col. of Dentistry, U.C.
Anderson, Frank Wilson . .	Santa Rosa . . .	
Austin, Walter Pike . . .	Santa Cruz, Cal. . .	Col. of Dentistry, U.C.
Bergstrom, Gottfrid . . .	Engelhorn, Swd'n . .	Col. of Dentistry, U.C.
Bernheim, Julien Rex . . .	Santa Cruz, Cal. . .	Dr. Chas. L. Bliss.
Blackburn, Daniel Edward . .	Paso Robles, Cal. . .	E. M. Dodson, D. D. S.
Broad, Edward James . . .	San Francisco, Cal. . .	Dr. Christensen.
Burns, Ralph Ellis . . .	San Jose, Cal. . .	Col. of Dentistry, U.C.
Caceres, Edwardo . . .	Guatemala, C. A. . .	Col. of Dentistry, U.C.
Carmichael, Thos. Merritt . .	San Jose, Cal. . .	Dr. C. C. Maynard.
J. G. Cassidy . . .	Covington, Ky., Ohio . .	Col. of D. S. . .
Casaday, Geo. Harry . . .	Watsonville, Cal. . .	C. H. Pearce, D. D. S.
Cockerton, Daniel Henry . .	Oakland, Cal. . .	Col. of Dentistry, U.C.
Cummings, Philip Stephen . .	Berkeley, Cal. . .	Col. of Dentistry, U.C.
Doyle Joseph, Horace . . .	Redwood City, Cal. . .	Col. of Dentistry, U.C.
Davis, Miss Alice May . . .	Salem, Oregon . . .	Col. of Dentistry, U.C.
Eller, Hubert Crees . . .	Etna Mills, Cal. . .	Col. of Dentistry, U.C.
Farman, Chas. Edward . . .	Berkeley, Cal. . .	Dr. J. J. Birge, Dr. C. H. Farman.
Finley, John Howard . . .	Modesto, Cal. . .	Col. of Dentistry, U.C.
Foster, Hartley C. . . .	Red Bluff, Cal. . .	Col. of Dentistry, U.C.
Galloway, John Francis . . .	Santa Ana, Cal. . .	P. R. Reynolds, D. D. S., M. D.
Grider, Jesse Benjamin . . .	Seiad Valley, Cal. . .	Col. of Dentistry, U.C.
Hackett, Arthur Earl . . .	San Francisco, Cal. . .	Drs. Pague and Brewer.
Hardy, Chas. Sumner . . .	Oakland, Cal. . .	Col. of Dentistry, U.C.
Joost, Miss Anna Dorothea . .	San Francisco, Cal. . .	Col. of Dentistry, U.C.
Leppo, David Harrison . . .	Santa Rosa, Cal. . .	Drs. Savage and Anderson.
Lucchetti, Albert Francis . .	San Francisco, Cal. . .	Col. of Dentistry, U.C.
Madden, Frank Michael . . .	San Jose, Cal. . .	A. G. Bennett, D. D. S.
Meyer, Herbert Stanhope . . .	San Francisco, Cal. . .	J. S. Knowlton.
McClish, John Milton . . .	Healdsburg, Cal. . .	Oscar Litchfield, D. D. S.
Mogan, Christopher John . . .	San Francisco, Cal. . .	Col. of Dentistry, U.C.
Moore, Miss Edna Fulton J. .	Marysville, Cal. . .	Col. of Dentistry, U.C.
Morgan, Alvah Nevada . . .	Nevada City, Cal. . .	C. W. Decker.
Newman, Harry Charles* . . .	Oakland, Cal. . .	Col. of Dentistry, U.C.

\*Not in attendance.



Ohhara, Totaro Hitoshi . . .	Japan . . .	M. E. Grossman, D. D. S.
Ostrom, Daniel Augustus, Jr. .	Marysville, Cal. .	W. O. Girardy, D. D. S.
Phillips, Geo. Hudson . . .	Hanford, Cal. .	Col. of Dentistry, U. C.
Phillips, Henry J. . . .	Petaluma, Cal. .	F. K. Munday, D. D. S.
Prince, Albert David . . .	San Francisco, Cal. .	Col. of Dentistry, U. C.
Reading, Wallace Wall . . .	San Francisco, Cal. .	Col. of Dentistry, U. C.
Rulison, Frederick Joseph . .	Reno, Nevada . .	D. W. Rulison, D. D. S.
Rogers, Eldron Earle . . .	San Francisco, Cal. .	Col. of Dentistry, U. C.
Scheu, Richard Edmond* . .	San Francisco, Cal. .	Col. of Dentistry, U. C.
Scott, John Hartley . . .	Sacramento, Cal. .	Dr. W. A. Root.
Somersett, John Christopher .	San Francisco, Cal. .	Col. of Dentistry, U. C.
Tobriner, Marion Laurence . .	San Francisco, Cal. .	Col. of Dentistry, U. C.
Tryon, Will Merrill . . .	Sacramento, Cal. .	Col. of Dentistry, U. C.
Vaughan, Frank . . . .	Pendleton, Oregon .	E. A. Vaughan, D. D. S.
White, Chapman M., Jr. . .	Chico, Cal. . .	Dr. Meek.
Whitman, Edward Wallace . .	Oakland, Cal. . .	Col. of Dentistry, U. C.

### FRESHMAN CLASS.

NAME.	RESIDENCE.	PRECEPTOR.
Alberti, Domenico Antonio . .	San Francisco, Cal. .	Col. of Dentistry, U. C.
Aldunate, Hector . . . .	Conception, Chili .	Col. of Dentistry, U. C.
Ayers, Charles Stuart . . .	Oakland, Cal. . .	A. T. Derby, D. D. S.
Baxter, John Clifford . . .	Independence . . .	Col. of Dentistry, U. C.
Barr, Thomas Ira Cook . . .	San Rafael . . . .	Col. of Dentistry, U. C.
Betterton, Edward Lee . . .	San Francisco, Cal. .	Col. of Dentistry, U. C.
Block, Samuel Daniel . . .	San Francisco, Cal. .	Col. of Dentistry, U. C.
Baer, Adolph . . . . .	San Francisco, Cal. .	Col. of Dentistry, U. C.
Baer, Julius . . . . .	San Francisco, Cal. .	Col. of Dentistry, U. C.
Cadena, Filiberto Everardo .	Guatemala, C. A., .	Col. of Dentistry, U. C.
Connor, Geo. Samuel . . .	Dixon, Cal. . . .	Col. of Dentistry, U. C.
Chilton, Jesse . . . . .	Santa Ana, Cal. . .	P. R. Reynolds, M. D. D. D. S.
Carew, Joseph Anthony . . .	San Francisco, Cal. .	S. J. Cunningham, D. D. S.
Dick, Archibold Younger . . .	Woodland, Cal. . .	
Domeniconi, James Severino .	San Francisco, Cal. .	Col. of Dentistry, U. C.
Etcheverry, Michel Henry Earle	Ramona, Cal. . . .	L. W. Watts, D. D. S.
Folger, Geo. Allen* . . . .	Stockton, Cal. . .	Col. of Dentistry, U. C.
Gaskill, Percy De Witt . . .	Oakland, Cal. . .	H. C. Bowman, D. D. S.
Green, Maurice Louis . . .	Alameda, Cal. . .	Col. of Dentistry, U. C.
Gates, Harry Everet . . . .	Sacramento, Cal. .	Col. of Dentistry, U. C.
Hunter, Oliver Rodney . . .	Oakland, Cal. . .	Col. of Dentistry, U. C.
Hansen, C. A. Theodore . . .	Mankato, Minn. . .	Col. of Dentistry, U. C.
Herbert, Elwood Fairbain . .	San Francisco, Cal. .	Col. of Dentistry, U. C.
Howard, Oliver Joseph . . .	Fresno, Cal. . . .	Col. of Dentistry, U. C.
Hertman, Herbert Louis . . .	Colusa, Cal. . . .	Col. of Dentistry, U. C.
Henderson, Horace Noble . . .	Berkeley, Cal. . .	Col. of Dentistry, U. C.

\* Not in attendance.



Harshall, Adolph K. . . . .	San Francisco, Cal.	Col. of Dentistry, U.C.
Jansing, Henry Anthony . . . .	San Francisco, Cal.	Col. of Dentistry, U.C.
Janke, Walter Ernest . . . . .	San Francisco, Cal.	Col. of Dentistry, U.C.
Kleiser, Joseph Albert . . . . .	Cloverdale, Cal.	G. W. Kleiser, D. D. S.
Knox, Henry Burton . . . . .	Oakland, Cal.	Col. of Dentistry, U.C.
Lillard, Walter French . . . . .	Dixon, Cal.	Col. of Dentistry, U.C.
Lark, Henry Edward* . . . . .	Oakland, Cal.	Col. of Dentistry, U.C.
Lindsay, James Albert . . . . .	Sacramento, Cal.	F. F. Tebbetts, D.D.S.
Levinger, Leo Valentine . . . . .	Paso Robles, Cal.	H. S. Boys, D. D. S.
McMath, John Fred Orville . . . .	Oakland, Cal.	Col. of Dentistry, U.C.
McGough, James . . . . .	Boonville, Cal.	Col. of Dentistry, U.C.
Mauk, Edwin Henry . . . . .	Watsonville, Cal.	W. N. Clark, D. D. S.
Millberry, Guy Stillman . . . . .	San Francisco, Cal.	Col. of Dentistry, U.C.
Novitzky, Joseph France . . . . .	San Francisco, Cal.	G. F. Rodden, D.D. S.
O'Brien, Edward William . . . . .	Wadsworth, Nev.	Col. of Dentistry, U.C.
Parr, Walter Arthur* . . . . .	Visalia, Cal.	Col. of Dentistry, U.C.
Painter, Eugene De Shong . . . . .	San Francisco, Cal.	Col. of Dentistry, U.C.
Perrin, Fred William . . . . .	San Jose, Cal.	J. W. Davy, D. D. S.
Rinckel, Edward Jack . . . . .	Carson City, Nev.	Col. of Dentistry, U.C.
Regnart, Percy Stuart . . . . .	Santa Clara, Cal.	E. R. Waterman, D. D. S.
Rutherford, Roy Fleming* . . . . .	Vallejo, Cal.	Col. of Dentistry, U.C.
Sieferd, Fred James . . . . .	Marysville, Cal.	Col. of Dentistry, U.C.
Sullivan, John Lyons . . . . .	Yuba City, Cal.	Col. of Dentistry, U.C.
Stapff, Frederick William . . . . .	San Francisco, Cal.	Col. of Dentistry, U.C.
scheier, Ralph Bartholomew . . . . .	San Francisco, Cal.	Col. of Dentistry, U.C.
Stern, Henry Stuart . . . . .	Arcata, Cal.	Col. of Dentistry, U.C.
Stokes, Fred Robert . . . . .	San Francisco, Cal.	Col. of Dentistry, U.C.
Shepard, William . . . . .	Alameda, Cal.	W. R. Hughes, D.D.S.
Schwarz, Charles George . . . . .	Oakland, Cal.	Col. of Dentistry, U.C.
Seydel, Frank William . . . . .	Wheatland, Cal.	Kunmerer, D. D. S.
Woolsey, Roy Irving . . . . .	Berkeley, Cal.	Col. of Dentistry, U.C.
Wilson, Jay Fremont . . . . .	Santa Cruz	C. L. Bliss, D. D. S.
Wagner, Anna Christina Frank	Austin, Nevada	Col. of Dentistry, U.C.
Woodward, William Geo.* . . . .	Oakland, Cal.	Col. of Dentistry, U.C.

\*Not in attendance.

### SPECIAL STUDENTS.

Guilbert, Benito Douglas.....	City of Mexico
Harrada, Bakusai, M. D.....	Japan
Mantofounes, Miss Euterpe.....	Athens

Seniors . . . . .	46
Juniors . . . . .	50
Freshmen . . . . .	60
Special . . . . .	3
Total . . . . .	159

## GRADUATES.

---

### 1882

Thomas Watson Hall.....	Oakland, California
Charles Wesley Hibbard.....	San Francisco, California
Thomas Morffew.....	San Francisco, California
Henry John Plomteaux.....	Oakland, California
Charles Wesley Richards.....	San Francisco, California
Gustave William Sichel, M. D.....	San Francisco, California
William Henry Stanley.....	San Francisco, California
August Van Crombrughe†.....	San Francisco, California

### 1883

John Nelson Blood*.....	Greenville, California
Charles Boxton.....	San Francisco, California
Maria Algelina Burch*.....	Pescadero, California
Edward Overton Cochrane.....	San Francisco, California
Russell Hopkins Cool.....	Oakland, California
Milton Francis Gabbs.....	San Francisco, California
William Edmund Price.....	San Francisco, California

### 1884

George Washington Cool.....	Oakland, California
John Michael Dunn.....	Oakland, California
Archibald Duncan Gleaves.....	Anderson, California
Robert Nicol.....	India
Gustave Carl Reitzke.....	San Francisco, California
William Henry Simmons.....	Oakland, California
Elmer Joseph Weldon.....	Vacaville, California

### 1885

Henry Silvester Bettis.....	Boise City, Idaho
George Botsford.....	San Francisco, California
Daniel Barratt Cate.....	Quincy, California
Nathaniel Thomas Coulson.....	San Francisco, California
George Ihmer Drucker.....	San Francisco, California
William Ellis Fitzpatrick.....	San Francisco, California
Walter Robert Henderson.....	Stockton, California
John Adams Douglas Hutton.....	West Berkeley, California
Franklin Pancoast.....	San Francisco, California
Charles Theodore Rodolph.....	Oakland, California
Frederick Judson Saxe, A. M.....	Oakland, California

---

\*Deceased.

†Name changed to August Van Crom by Superior Court, San Francisco, July 22, '89

Joseph Schneider.....San Salvador, Central America  
Henry Silvester, Jr.....San Francisco, California

### 1886

Harry Putnam Carlton.....San Francisco, California  
Hector Ludovic Couret.....Senora, Mexico  
Martin Joseph Dunn.....San Francisco, California  
Nicholas Anton Givovich.....Cardiff, Wales  
John Gow Humphrey.....Alameda, California  
Thomas Harvey Morris.....San Francisco, California  
William Cormack Reith.....Sacramento, California  
Joseph Emil Sand.....San Francisco, California  
Benjamin Franklin Simmons.....Oakland, California  
William Oltman Stuttmeister.....Redwood City, California  
William Grover Sylvester.....San Francisco, California

### 1887

Edward Livingston Davis.....San Francisco, California  
Joseph Dupuy Hodgen.....San Francisco, California  
Harold McKean Jones.....Cloverdale, California  
Edward Maldonado.....San Francisco, California  
Robert Eugene Payne.....New York  
Charles Edgar Post.....San Francisco, California  
Arthur Theodore Regensburger.....San Francisco, California  
George Frederick Rodden.....San Francisco, California  
George Walter Rodolph.....Oakland, California  
Granville Eugene Shuey.....East Oakland, California  
Jennie Martin Simpson.....San Francisco, California  
Otto Frank Westphal.....San Francisco, California

### 1888

Ira Hart Chapman.....San Francisco, California  
Samuel Alston Hackett.....Oakland, California  
Frank Lewis Hultberg.....San Francisco, California  
Philander McCargar\*.....Oakland, California  
Joseph Pfister.....Suisun, California  
William George Shankey.....San Francisco, California  
Edward Nelson Short.....San Francisco, California  
Charles Sawtelle Weston.....Oakland, California

### 1889

Milton Ross Gambitz.....San Francisco, California  
Benjamin Mitchell Gunzberger.....San Francisco, California  
William Alexander Meyer.....San Francisco, California  
Warren Guice Mobley.....Oakland, California  
Dorr Nash.....San Jose, California  
Andrew John Powell.....Haywards, California  
Edward William Pratt.....San Francisco, California  
Frederick Courtland Sutliff.....Sacramento, California  
Arthur Henry Wallace.....San Francisco, California

\*Deceased.

1890

Frederick Harrison Allbright.....	Red Bluff, California
Gotthard Sigismund Bachman.....	San Francisco, California
Frank Drake Burleson.....	Santa Cruz, California
Paul Charles Erhardt.....	San Francisco, California
William T. Heider.....	Oakland, California
Charles Alex Herrick.....	Jackson, California
Saul Robert Jacobs.....	San Francisco, California
Charles Ashby Litton.....	San Francisco, California
Walter Romain Lovegrove.....	San Francisco, California
George Martin.....	Berlin, Germany
Clark Harrison Rawson.....	Jamestown, New York
Richard McCargar.....	San Francisco, California
John Matthew Redmond.....	Santa Rosa, California
David Warren Rulison.....	Reno, Nevada
William Fuller Sharp.....	San Francisco, California
Albert John Sylvester.....	San Francisco, California

1891

Josephine Wright Armstrong.....	San Francisco, California
Charles Franklin Bauer.....	San Francisco, California
Charles Henry Bell.....	San Francisco, California
John Millard Blodgett.....	Lodi, California
Cecil Corwin.....	Oakland, California
D. Carter Elliott.....	Martinez, California
Philip Foster Frear.....	Oakland, California
Charles Lawrence Griswold.....	St. Paul, Minnesota
Charles George Hyde*.....	Merced, California
Edwin Chandler Hyde.....	Phoenix, Arizona
William Martin.....	Oakland, California
John Patrick McCarthy.....	San Francisco, California
Charles Avan Meek.....	San Francisco, California
Albert Dean Elmore Miles.....	San Francisco, California
Robert Forrester Millar.....	Alameda, California
Robert Isaac Moore.....	Honolulu, H. I.
Howard Delos Noble.....	San Francisco, California
Forrest Hoy Orton.....	St. Paul, Minnesota
Frank Harry Phillips.....	Hollister, California
Harry Griffin Richards.....	San Francisco, California
Harold Lawrence Seager.....	San Francisco, California
Harry Howard Shaw.....	San Francisco, California
George Newins Van Orden.....	San Francisco, California
Gustavus Adolphus Weyer.....	Modesto, California

1892-93†

Edmund James Alger.....	Santa Cruz, California
Reginald Heber Allen.....	East Oakland, California

\*Deceased.

†Session changed from summer to winter.



Jorge Arroyo.....	Guatemala, Central America
Frank Parker Ashworth.....	San Jose, California
William Nelson Avery.....	San Jose, California
Augustus Griffin Bennett, Jr.....	San Jose, California
Paul Stirling Coke.....	San Jose, California
Emile William Davis.....	Melbourne, Australia
Cecil Chalmers Dennis.....	San Francisco, California
Albert Terrill Derby.....	San Francisco, California
William Caughlin Grove.....	Oakland, California
Wilbur Hanford Halsey.....	Oakland, California
George Herman Huddy.....	Honolulu, H. I.
Oscar Litchfield.....	Healdsburg, California
William Andrew McQuitty.....	San Francisco, California
George Hubbard Meredith.....	Smartsville, California
Edward Thomas Mervy.....	San Francisco, California
Edward Franklin Parr.....	Chico, California
Corydon B. Root.....	San Francisco, California
Ernest Frederick Schlott.....	San Francisco, California
Frederick Schumacher.....	San Jose, California
Walter Kendal Scott.....	San Francisco, California
James Graham Sharp.....	San Francisco, California
Allen Holman Suggett, B. S.....	Marysville, California
Harry Francis Sullivan.....	Oakland, California
Robert Lee Taylor.....	San Francisco, California
William Emmett Taylor.....	Oakland, California
Joseph Treleven Thomas*.....	Gold Hill, Nevada

### 1893-94

Edward Ellsworth Baird.....	Sanger, California
William Henry Cavell.....	Carson, Nevada
McCoy Chappell.....	Lompoc, California
Conrad Deichmiller.....	San Francisco, California
John Alvin Gibbon*.....	San Francisco, California
Gilbert Fuller Graham.....	San Francisco, California
Robert Frederick Gray.....	San Francisco, California
Walter Simpson Jewell.....	Oakland, California
James William Likens.....	San Francisco, California
William O'Rourke.....	Oakland, California
Henry Powell, Jr.....	Haywards, California
Walter Judson Taylor.....	Sacramento, California
Leander Van Orden, M. D.....	San Francisco, California
Thomas Augustus Vogel.....	San Francisco, California
David John Vogelmann.....	Vallejo, California
Walter Irving Wilcox.....	San Francisco, California
Charles Custar Wood.....	Modesto, California
William Henry Wadsworth.....	Ukiah, California

\*Deceased.



# 1894-95

William Amos Atwood.....	San Francisco, California
Frederick Richard Axton.....	San Francisco, California
Thomas Francis Barrett.....	San Francisco, California
Herbert Andrew Bernard*.....	Bakersfield, California
John Nicholas Borger.....	San Francisco, California
John Bennett Bowles.....	Guatemala, Central America
James Albert Brown.....	San Francisco, California
Louis Ettienne Brun, B. S.....	San Francisco, California
Byron Leonard Carpenter.....	Poplar, California
Ralph Charles Coleman.....	San Francisco, California
David Milton Coney.....	San Francisco, California
Eugene Morris Dodson.....	Paso Robles, California
Oscar Plank Fitch.....	Placerville, California
James Garrett Fitzgibbon.....	San Francisco, California
Arthur Morris Flood.....	San Francisco, California
Arthur James Ford.....	Taylorsville, California
Reuben Lyon Hale.....	Martinez, California
Eminel Potter Halsted.....	San Francisco, California
John Ross Hardy.....	Boston, Mass
Charles Peter Hauselt.....	San Francisco, California
Edward Shortridge Holloway.....	College City, California
Joseph Arthur Jeffrey.....	San Francisco, California
William Berridge Ludlow.....	Oakland, California
Frances Asbury McCan.....	Stockton, California
Amiel Morris.....	Woodland, California
Robert Emmett O'Connell.....	San Francisco, California
Clarence Hubert Pearce.....	Watsonville, California
Robert Henry Porterfield.....	San Francisco, California
Fred Earl Sawyer.....	San Rafael, California
Leo Sichel.....	San Francisco, California
Walter E. Singleton.....	San Francisco, California
Robert Washington Smith.....	San Francisco, California
Harley Howard Stephenson.....	Sacramento, California
Edward Lord Strain*.....	San Francisco, California
Arthur Livingston Tibbitts.....	Livingston, California
Newton Booth Wachhorst.....	San Francisco, California
Edwin Ruthven Waterman.....	San Francisco, California
Frederick Heilbron White*.....	San Francisco, California

# 1895-96

William Henry Abbay.....	Oakland, California
Henry Abrahm.....	San Francisco, California
George Abrams.....	San Francisco, California
Marilda Jane Ayers.....	San Francisco, California
Frederick Guernsey Baird.....	San Francisco, California
Mary Louise Baird.....	San Francisco, California

\*Deceased.

Bertram Carl Boeseke.....	San Francisco, California
Franklin Calvin Bonnel.....	Hollister, California
Charles Harold Bowman.....	San Francisco, California
Albert Cafferata.....	San Francisco, California
Paul Tulane Carrington.....	Bangkok, Siam
Harry George Chappel.....	Oakland, California
William Nathan Clark.....	Watsonville, California
Frank Herman Cranz.....	San Francisco, California
Jacob Cohn.....	Boise City, Idaho
Stephen Joseph Cunningham.....	San Francisco, California
William Edward Davis.....	San Francisco, California
James Morton Forrest, Jr.....	Los Gatos, California
Arthur A. Fowler.....	San Jose, California
H. Edward Gedge.....	San Francisco, California
Amy Maxted Gilbert†.....	San Francisco, California
Charles Daniels Gilman.....	Oakland, California
Lawrence Greenbaum.....	San Francisco, California
Richard Geo. Cornelius Harms.....	Oakland, California
Charles Edwin Hart.....	Pacific Grove, California
Arthur Philip Harth.....	Grant's Pass, Oregon
George Morgan Harris.....	Oakland, California
Alexander Hamilton Hawley.....	Sacramento, California
George Henry Haynes.....	Victoria, B. C.
Samuel William Hilliard.....	San Francisco, California
Guy Brown Husted.....	Modesto, California
Konrad Magnus Lundborg.....	San Francisco, California
Stephen Cholmeley Maynard.....	San Jose, California
Naoma Gae MacDonald.....	San Francisco, California
Robert B. McNutt.....	San Francisco, California
Thomas Snelling Morden.....	Boise City, Idaho
Fred Gustave Pless.....	San Francisco, California
Charles Bruce Porter, Jr.....	San Francisco, California
Joseph Ignatius Richards.....	San Francisco, California
Leon Joseph Roth.....	Los Angeles, California
Anna Martin Sawyer.....	San Francisco, California
John Herbert Seager, A. B.....	San Francisco, California
Frank Joseph Smith.....	San Jose, California
George Edward Stallman.....	San Francisco, California
Benjamin Mitchell Stich.....	San Francisco, California
Montgomery Thomas.....	Fresno, California
Oscar Tobriner.....	San Francisco, California
Clifford Todd.....	Sacramento, California
William Henry Ware.....	San Francisco, California
Lauren David Webster*.....	San Jose, California
Clyde Allen Weldon.....	Sacramento, California
Edward William Westphal.....	San Francisco, California

† Registered "Rowland"

\* Deceased

1896-97

Julian Woods Ashley.....	Oroville, California
Benjamin Avery Bosqui.....	San Francisco, California
Edwin Andrews Clay.....	San Buenaventura, California
Charles Alfred Coffin.....	Reno, Nevada
Orville Mirtland Colburn.....	Woodland, California
Asa Weston Collins.....	Redwood City, California
Medora Vaux Croall.....	San Francisco, California
Stephen Russell Cushing.....	San Jose, California
George Samuel Donnelley.....	San Francisco, California
Judge Haley Durham.....	Irvington, California
Edward Sewell Fiske*.....	San Francisco, California
Howard West French.....	Oakland, California
Ray Edson Gilson.....	Oakland, California
Herman Peirce Hanson.....	San Jose, California
Frederick William Harnden.....	San Francisco, California
William Merced Herrington.....	San Francisco, California
Theodore Shelton Higgins.....	San Francisco, California
William Robin Holladay.....	Los Angeles, California
Walter Renwick Hughes.....	Alameda, California
Charles Fitz-Howard Jarvis.....	Oakland, California
Frank D. Johnson.....	Chico, California
Paul Clinton Jones.....	San Francisco, California
Edmond Douglas Keffe.....	San Francisco, California
Louis Joseph Kerwin.....	Westside, California
Clair Cutting Marckres.....	San Jose, California
Charles Joseph McCarthy.....	Napa, California
Milton McMurray.....	Crescent City, California
Julius Ira Morris.....	Los Angeles, California
James Arthur Plunkett.....	Oakland, California
Thomas Hopkins Quirk.....	Virginia City, Nevada
George Washington Raymond.....	San Francisco, California
Harry Clendenin Reynolds.....	Upper Lake, California
Frank Oniska Robinson.....	Petaluma, California
Helen May Rulison.....	San Francisco, California
Edward Weld Russell.....	Livermore, California
Fannie Elsie Scott.....	Oakland, California
Edwin Matthew Stealey.....	San Francisco, California
Henry Stiles.....	San Jose, California
Charles Maurice Sumner.....	San Jose, California
George Henry Tomkins.....	Calistoga, California
Edward Albright Upton.....	Oakland, California
Martin Wachs.....	Oakland, California
Thomas Rattray Wheeler.....	Concord, Massachusetts

1897-98

Henry Graham Allen.....	San Francisco, California
John Hugh Atkins.....	San Francisco, California

\* Deceased

Perley Bosworth Aiken.....	Oakland, California
Mabel Lucile Beers.....	San Francisco, California
Jean Cline.....	Portland, Oregon
John Hill Cooper.....	Campbell, California
Homer Theodore Craig.....	Oakland, California
Charles Hall Du'Bois.....	San Rafael, California
Andrew Lewis Edwards.....	San Francisco, California
Weston Burgess Estes.....	Sacramento, California
Hartley Williams Gottenberg.....	Oakland, California
Norman Sherwood Halsey.....	Oakland, California
William Daniel Henderson.....	Berkeley, California
Andrew Jackson Hiniker.....	San Rafael, California
Ira Loomis Hinckley.....	Fillmore, California
Perley Centennial Jones.....	Pacific Grove, California
Minnie Evangeline Jordan.....	Ontario, California
Charles Fisher Lemmon.....	San Francisco, California
William Raymond Linscott.....	Santa Cruz, California
Flora Mae MacDonald.....	San Francisco, California
Louis Paul Mariotte.....	Oakland, California
Charles Luttrell McPike.....	Vallejo, California
Hubert Oscar Francis Menton.....	Santa Clara, California
Charles Leonard Morey.....	Oakland, California
Frederick Bright Pearce.....	San Jose, California
Jerome Bonaparte Painter.....	San Francisco, California
Helen Agnes Parker.....	Oakland, California
Armstrong Cooper Pratt.....	San Bernardino, California
Alfred Currie Rulofson, Jr.....	San Francisco, California
George E. Schillig.....	Yuba City, California
Franklin Trewick Scott.....	Ellensburg, Washington
Frank Convers Sellwood.....	Salem, Oregon
Ernest Kirkpatrick Sisson.....	San Mateo, California
Thomas Martin Smith.....	San Jose, California
Walter Joseph Smyth.....	Oakland, California
Joseph Mehlert Stalder.....	Oakland, California
George Grant Stanford.....	San Francisco, California
Charles Joy Stephens, A. M.....	Paris, Kentucky
George Henry Stewart.....	San Francisco, California
William Alfred Walden.....	Stockton, California
Frank Dilts Watkins.....	San Jose, California
Caleb Russell Wilcoxon.....	San Francisco, California
Jean Irene Worthington.....	San Francisco, California
George Henry Wymore.....	Melitta, California

1898-99.

Ricardo Arroyo.....	Antigua, Guatemala
William Robertson Allin.....	Salem, Oregon
William Robert Bacon.....	Alameda, California
Joseph Barnett.....	New York City, N. Y.
Arthur Woodley Baker.....	San Francisco, California



Robert Johnson Blake.....	San Francisco, California
Walter Joseph Burridge.....	San Francisco, California
Miss May Blossom.....	Carson City, Nevada
Miss Anna Belle Paterson Croall.....	San Francisco, California
John Albert Colegrove.....	Oakland, California
Monroe N. Callender.....	San Francisco, California
Palmer Howard Dunbar .....	San Francisco, California
Norman Stanley Fairweather.....	San Francisco, California
Cecil Albert Fugler.....	Santa Maria, California
Frederick Thomas Grant.....	Healdsburg, California
George Weston Gove.....	Berkeley, California
Francis Joseph Gruss.....	San Francisco, California
Lee Robert Gambitz.....	San Francisco, California
Miss Leonore Freida Herrmann.....	San Francisco, California
Benagah Ralph Hamlin.....	Alameda, California
Thomas Rodney Jones.....	Martinez, California
Charles Frederick Kuster.....	Wheatland, California
William Joseph Lawson.....	Silver City, Nevada
George Willis Likens.....	Carson City, Nevada
William Horace Mayhew.....	San Francisco, California
Edward Martin Mulrenin.....	San Francisco, California
James Benjamin Franklin Millar.....	San Francisco, California
Stephen Livingston Piper.....	San Francisco, California
Louis Herbert Parks.....	Marysville, California
Andrew Darwin Patterson.....	Visalia, California
Wallace Hiram Renwick.....	Sacramento, California
Charles Louis Reich.....	San Francisco, California
Joseph Patrick River.....	San Francisco, California
Abraham Sinclair Sullivan.....	San Francisco, California
Maurice Schiller.....	San Diego, California
Thomas Ustick Smyth.....	San Rafael, California
Stephen Scott Southworth.....	San Rafael, California
Howard Alan Tennyson.....	San Francisco, California
Alonzo Walter Tate .....	Oakland, California
Miss Rosa Edith Turner.....	Modesto, California
John Jarvis Williams.....	Modesto, California
Arthur Loring White.....	San Francisco, California
Edward Otis Whitney.....	San Jose, California
Arthur Henry Wanz.....	San Francisco, California
William Louis Warnekros.....	Fresno, California

N. B.—Graduates are requested to forward their correct addresses to the Secretary.



### COMMENCEMENT 1898-99.

---

The Seventeenth Commencement Exercises of the College of Dentistry of the University of California were held at Berkeley on Wednesday, May 17, 1899, at 10 o'clock A. M., conjointly with the Commencement Exercises of the Academic Department.

The exercises being general in character, admit of no special features such as we have heretofore enjoyed. The conferring of Degrees is of necessity a formal ceremony, as it includes every Degree conferred at Berkeley with the added Degrees of participating departments located in San Francisco. The University spirit that prevails can but exert a powerful influence upon those of our students fortunate enough to enjoy this privilege.

THE ALUMNI ASSOCIATION

OF THE

COLLEGE OF DENTISTRY, UNIVERSITY OF CALIFORNIA

THE LIBRARY OF THE  
FEB 26 1931

The objects of this Society are to sustain and advance the prosperity of our ALMA MATER, by cultivating a fraternal feeling among the Alumni, by aiding in all efforts to elevate the standard of Dental Education, and extending the progress of Dental Science and Art.

At the annual meeting in 1896 the following resolution was adopted :—

*Resolved*, That all graduates that have not allied themselves with this Association, and the Class of '96 and succeeding classes, be invited to affiliate at the coming midsummer meeting, without the cost of an admission fee.

*Two Meetings* are held yearly: one on the evening of the annual College Commencement (followed by the annual Alumni banquet), and the other during the mid-term of the College, subject to the call of the Executive Committee.

The following officers have been elected for the current year :—

PRESIDENT.....JOSEPH D. HODGEN, D. D. S.  
VICE-PRESIDENT .....MARTIN J. DUNN, D. D. S.  
REC. SECRETARY.....BENJ. M. STICH, D. D. S.  
COR. SECRETARY... WM. M. HERRINGTON, D. D. S.  
TREASURER.....ALBERT CAFERATA.

*EXECUTIVE COMMITTEE.*

C. A. LITTON, D. D. S. CHAS. P. HAUSELT, D. D. S.  
GEO. F. RODDEN, D. M. CONEY, D. D. S.  
HOWARD D. NOBLE, D. D. S.

All Alumni are urgently requested to identify themselves with the Association, and to assist in promoting its welfare and advancing its objects.

## CLINICAL REPORT OF THE INFIRMARY.

The following is a list of work done in the Infirmary during the session of 1898-99 :

### OPERATIVE DEPARTMENT.

Number of Gold fillings.....	1,344
“ “ Amalgam fillings.....	2,247
“ “ Cement fillings.....	545
“ “ Cleaning cases.....	462
“ “ Gutta Percha fillings.....	10
Treatment cases, including abscess and devitalizations.....	504
Pyorrhœa.....	36

### PROSTHETIC DEPARTMENT.

Gold crowns.....	158
Logan crowns.....	46
Richmond crowns.....	54
Standard crowns.....	32
Bridges.....	49
Gold plates.....	3
Vulcanite plates.....	222
Repair cases.....	250
Silver plates.....	3
Aluminum plates.....	10

### ORTHODONTIA.

Specimen cases.....	350
Practical cases.....	65
Orthodontia technic, each student.....(pieces)	16

### EXTRACTING CLINIC.

Number of permanent teeth extracted.....	2,105
“ “ temporary “ “.....	1,316
Total.....	3,421
Number of Nitrous Oxide administrations.....	132
Caries.....	5
Empyema of Antrum.....	3
Trismus.....	2

The following is a list of specimen work which was required of each student during the session of 1898-99 :

### SENIOR STUDENTS.

One metal molar crown with porcelain face, carrying porcelain dummy with metal cusps.

Vulcanite interdental splint with means of fastening or ligating same on a plaster articulator.

Piece of bridge work of not less than five teeth, showing three different styles of crowns with one porcelain face riveted on, as if repaired in the mouth.

Full superior and inferior plates on articulator, one to be turned rim, the other inside and outside soldered wire. One to be plain teeth, the other gum teeth. One to be vulcanite attachment, the other celluloid.

Superior partial swaged plate with bicuspid and molars ground to plate and soldered.

Removable saddle bridge on metal base, to be secured with a dove-tail attachment on one end and telescope crown on the other.

Metal base with teeth soldered and prepared for body as in constructing continuous gum case.

### *JUNIOR STUDENTS.*

Metal crown, for central or cuspid, fitted to root.

One metal crown with porcelain face and metal cusps.

Vulcanite plate with three colors of rubber at one packing.

Pink gums, red palate and black contact.

Cast aluminum base, ready for the teeth.

Twenty-eight (28) gum teeth ground and articulated on metal bases, with spiral springs.

Metal base plate with soldered chamber and outside soldered band.

Full metal plate with six (6) anterior plain teeth ground to gum and soldered, and bicuspid and molars attached with vulcanite.

### *FRESHMAN STUDENTS.*

Plaster, wax and compound impressions.

Plaster articulator with as few teeth on models as possible. Repair a partial vulcanite plate, and add a plate tooth.

Make a vulcanite base plate with aluminum lining. Make a hollow vulcanite bulb at least one-half inch in diameter and cut it in halves.

Set of fourteen (14) plain teeth arranged on "Ideal" case plate material.

Plaster model with at least three single gum teeth ground together on it.

Make a plaster model, and a celluloid base on a tin model from it, polished on both sides when it leaves the press.

A denture with at least two gum teeth and two plain teeth on a metal base.

Superior and inferior full sets of gum teeth articulated on wax.











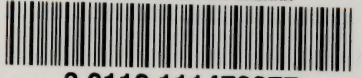








UNIVERSITY OF ILLINOIS-URBANA



3 0112 111472277